

Table 14.4-6 Descriptive Statistics of Blood and/or Plasma Biomarkers of Exposure by Timepoint for Demographic Characteristic: Highest Grade or Year of School Completed

TABLE 14.4-6

DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
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Lab: Madison
 Biomarker: Acetonitrile (ng/mL)
 Timepoint: Week 1

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	3	8	11	9	9	18
	MEAN, GEO MEAN	421.37, 342.74	160.03, 151.61	231.30, 189.38	325.32, 168.51	225.68, 112.96	275.50, 137.96
	SD, SE	345.934, 199.725	62.457, 22.082	203.880, 61.472	438.822, 146.274	317.365, 105.788	375.026, 88.395
	MEDIAN	231.94	141.99	151.77	194.92	88.30	113.31
	MIN, MAX	211.53, 820.65	106.90, 296.37	106.90, 820.65	30.00, 1436.85	30.00, 972.68	30.00, 1436.85
	5%, 95%	211.53, 820.65	106.90, 296.37	106.90, 820.65	30.00, 1436.85	30.00, 972.68	30.00, 1436.85
	BLQ Values Included	0	0	0	2	2	4
Completed tech/voc/trade school	N	4	6	10	2	5	7
	MEAN, GEO MEAN	319.72, 254.76	195.60, 178.57	245.25, 205.85	98.93, 98.49	70.94, 64.11	78.94, 72.48
	SD, SE	274.645, 137.322	81.884, 33.429	181.595, 57.425	13.046, 9.225	31.485, 14.080	29.592, 11.185
	MEDIAN	209.31	224.61	219.17	98.93	88.39	89.70
	MIN, MAX	132.35, 727.92	92.52, 297.54	92.52, 727.92	89.70, 108.15	30.00, 99.90	30.00, 108.15
	5%, 95%	132.35, 727.92	92.52, 297.54	92.52, 727.92	89.70, 108.15	30.00, 99.90	30.00, 108.15
	BLQ Values Included	1	0	1	0	1	1
High school graduate/GED	N	3	7	10	2	6	8
	MEAN, GEO MEAN	679.24, 674.05	201.97, 181.38	345.15, 268.92	80.37, 77.75	154.07, 110.35	135.65, 101.10
	SD, SE	103.628, 59.830	95.135, 35.958	246.135, 78.467	28.808, 20.370	154.862, 63.222	135.693, 47.975
	MEDIAN	663.26	184.18	227.00	80.37	103.30	99.05
	MIN, MAX	584.53, 789.93	66.48, 374.01	66.48, 789.93	60.00, 100.74	30.00, 462.17	30.00, 462.17
	5%, 95%	584.53, 789.93	66.48, 374.01	66.48, 789.93	60.00, 100.74	30.00, 462.17	30.00, 462.17
	BLQ Values Included	0	0	0	1	1	2
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	696.07, 696.07	386.20, 386.20	341.14, 318.48	129.02, 112.92	52.02, 48.68	100.15, 82.36
	SD, SE	NA, NA	NA, NA	219.111, 154.935	66.016, 29.523	22.187, 12.810	64.955, 22.965
	MEDIAN	696.07	386.20	541.14	148.12	51.70	78.77
	MIN, MAX	696.07, 696.07	386.20, 386.20	386.20, 696.07	45.00, 214.14	30.00, 74.37	30.00, 214.14
	5%, 95%	NA, NA	NA, NA	386.20, 696.07	45.00, 214.14	30.00, 74.37	30.00, 214.14
	BLQ Values Included	0	0	0	1	1	2
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	318.09, 318.09	126.03, 126.03	222.06, 200.22	115.83, 115.83	30.00, 30.00	72.92, 58.95
	SD, SE	NA, NA	NA, NA	135.807, 96.030	NA, NA	NA, NA	60.691, 42.915
	MEDIAN	318.09	126.03	222.06	115.83	30.00	72.92
	MIN, MAX	318.09, 318.09	126.03, 126.03	126.03, 318.09	115.83, 115.83	30.00, 30.00	30.00, 115.83
	5%, 95%	NA, NA	NA, NA	126.03, 318.09	NA, NA	NA, NA	30.00, 115.83
	BLQ Values Included	0	0	0	0	1	1

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
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Lab: Madison
 Biomarker: Acetonitrile (ng/mL)
 Timepoint: Week 1

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	3	3	3	2	5
	MEAN, GEO MEAN	NA, NA	145.86, 138.48	145.86, 138.48	49.55, 47.12	85.17, 76.23	63.80, 57.12
	SD, SE	NA, NA	60.406, 34.875	60.406, 34.875	17.866, 10.315	53.691, 37.965	35.508, 15.880
	MEDIAN	NA	111.88	111.88	53.62	85.17	53.62
	MIN, MAX	NA, NA	110.09, 215.60	110.09, 215.60	30.00, 65.03	47.20, 123.13	30.00, 123.13
	5%, 95%	NA, NA	110.09, 215.60	110.09, 215.60	30.00, 65.03	47.20, 123.13	30.00, 123.13
	BLQ Values Included	NA	0	0	1	0	1
Undergraduate degree	N	2	6	8	8	10	18
	MEAN, GEO MEAN	826.79, 642.94	381.89, 197.85	493.11, 265.64	119.38, 90.41	287.65, 104.67	212.86, 98.07
	SD, SE	735.136, 519.820	561.146, 229.087	586.973, 207.526	91.931, 32.503	494.008, 156.219	374.275, 88.218
	MEDIAN	826.79	136.41	227.39	94.14	84.91	84.91
	MIN, MAX	306.97, 1346.61	75.16, 1508.01	75.16, 1508.01	30.00, 298.36	30.00, 1521.61	30.00, 1521.61
	5%, 95%	306.97, 1346.61	75.16, 1508.01	75.16, 1508.01	30.00, 298.36	30.00, 1521.61	30.00, 1521.61
	BLQ Values Included	0	0	0	3	2	5

TABLE I4.4-6
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
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Lab: Madison
Biomarker: Acetonitrile (ng/mL)
Timepoint: Week 2

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	3	8	11	9	9	18
	MEAN, GEO MEAN	402.69, 343.54	304.99, 214.70	331.63, 244.07	229.60, 147.19	248.25, 128.69	238.93, 137.63
	SD, SE	287.131, 165.775	227.917, 80.581	234.379, 70.668	209.794, 69.931	277.783, 92.594	238.990, 56.331
	MEDIAN	274.95	227.09	274.95	207.76	112.74	162.67
	MIN, MAX	201.59, 731.52	30.00, 612.26	30.00, 731.52	30.00, 688.37	30.00, 756.74	30.00, 756.74
	5%, 95%	201.59, 731.52	30.00, 612.26	30.00, 731.52	30.00, 688.37	30.00, 756.74	30.00, 756.74
	BLQ Values Included	0	1	1	2	3	5
Completed tech/voc/trade school	N	4	6	10	2	5	7
	MEAN, GEO MEAN	614.54, 407.74	235.93, 192.73	387.38, 260.09	97.40, 96.91	65.95, 59.73	74.94, 68.59
	SD, SE	657.234, 328.617	168.698, 68.871	444.996, 140.720	13.683, 9.675	29.660, 13.264	29.207, 11.039
	MEDIAN	371.23	201.59	267.58	97.40	75.80	87.72
	MIN, MAX	137.22, 1578.50	78.66, 540.06	78.66, 1578.50	87.72, 107.07	30.00, 95.44	30.00, 107.07
	5%, 95%	137.22, 1578.50	78.66, 540.06	78.66, 1578.50	87.72, 107.07	30.00, 95.44	30.00, 107.07
	BLQ Values Included	0	0	0	0	1	1
High school graduate/GED	N	3	7	10	2	6	8
	MEAN, GEO MEAN	475.51, 408.27	573.58, 387.50	544.16, 393.62	311.79, 311.77	269.01, 189.09	279.70, 214.27
	SD, SE	309.067, 178.440	581.495, 219.784	498.894, 157.764	4.900, 3.465	217.605, 88.837	184.982, 65.401
	MEDIAN	410.28	220.72	315.50	311.79	203.63	263.61
	MIN, MAX	204.27, 811.99	173.83, 1701.68	173.83, 1701.68	308.32, 315.25	36.27, 610.62	36.27, 610.62
	5%, 95%	204.27, 811.99	173.83, 1701.68	173.83, 1701.68	308.32, 315.25	36.27, 610.62	36.27, 610.62
	BLQ Values Included	0	0	0	0	0	0
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	285.73, 285.73	461.77, 461.77	373.75, 363.24	183.55, 176.82	66.83, 60.05	139.78, 117.94
	SD, SE	NA, NA	NA, NA	124.479, 88.020	50.870, 22.750	32.610, 18.827	73.701, 26.057
	MEDIAN	285.73	461.77	373.75	193.90	78.44	136.21
	MIN, MAX	285.73, 285.73	461.77, 461.77	285.73, 461.77	104.08, 234.14	30.00, 92.04	30.00, 234.14
	5%, 95%	NA, NA	NA, NA	285.73, 461.77	104.08, 234.14	30.00, 92.04	30.00, 234.14
	BLQ Values Included	0	0	0	0	1	1
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	697.98, 697.98	113.65, 113.65	405.82, 281.65	92.32, 92.32	30.00, 30.00	61.16, 52.63
	SD, SE	NA, NA	NA, NA	413.184, 292.165	NA, NA	NA, NA	44.067, 31.160
	MEDIAN	697.98	113.65	405.82	92.32	30.00	61.16
	MIN, MAX	697.98, 697.98	113.65, 113.65	113.65, 697.98	92.32, 92.32	30.00, 30.00	30.00, 92.32
	5%, 95%	NA, NA	NA, NA	113.65, 697.98	NA, NA	NA, NA	30.00, 92.32
	BLQ Values Included	0	0	0	0	1	1

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
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Lab: Madison
 Biomarker: Acetaminophen (ng/mL)
 Timepoint: Week 2

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	3	3	3	2	5
	MEAN, GEO MEAN	NA, NA	191.49, 151.87	191.49, 151.87	43.07, 39.64	77.38, 77.36	56.79, 51.79
	SD, SE	NA, NA	145.712, 84.127	145.712, 84.127	22.632, 13.067	2.482, 1.755	24.714, 11.052
	MEDIAN	NA	164.86	164.86	30.00	77.38	69.20
	MIN, MAX	NA, NA	60.93, 348.68	60.93, 348.68	30.00, 69.20	75.62, 79.13	30.00, 79.13
	5%, 95%	NA, NA	60.93, 348.68	60.93, 348.68	30.00, 69.20	75.62, 79.13	30.00, 79.13
	BLQ Values included	NA	0	0	2	0	2
Undergraduate degree	N	2	5	7	8	10	18
	MEAN, GEO MEAN	533.71, 518.23	186.47, 123.31	285.68, 185.84	112.25, 81.14	219.70, 148.32	171.94, 113.44
	SD, SE	180.447, 127.595	218.385, 97.665	256.768, 97.049	98.451, 34.808	183.229, 57.942	157.428, 37.106
	MEDIAN	533.71	89.31	139.48	73.72	142.58	96.94
	MIN, MAX	406.11, 661.30	48.66, 572.78	48.66, 661.30	30.00, 308.92	32.17, 506.90	30.00, 506.90
	5%, 95%	406.11, 661.30	48.66, 572.78	48.66, 661.30	30.00, 308.92	32.17, 506.90	30.00, 506.90
	BLQ Values Included	0	0	0	3	0	3

TABLE 14.4-6
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
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Lab: Madison
Biomarker: Acetonitrile (ng/mL)
Timepoint: Week 3

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	3	8	11	8	9	17
	MEAN, GEO MEAN	1153.00, 738.64	429.12, 283.02	626.54, 367.65	356.58, 322.45	112.49, 99.24	227.36, 172.80
	SD, SE	1322.430, 763.506	429.392, 151.813	770.166, 232.214	133.568, 54.295	59.841, 19.947	166.969, 40.496
	MEDIAN	429.35	287.76	350.32	355.87	108.80	130.16
	MIN, MAX	350.32, 2679.33	46.59, 1389.35	46.59, 2679.33	130.16, 568.69	30.00, 252.66	30.00, 568.69
	5%, 95%	350.32, 2679.33	46.59, 1389.35	46.59, 2679.33	130.16, 568.69	30.00, 252.66	30.00, 568.69
	BLQ Values Included	0	0	0	0	1	1
Completed tech/voc/trade school	N	4	6	10	2	5	7
	MEAN, GEO MEAN	766.66, 436.58	182.75, 153.92	416.31, 233.56	167.15, 166.36	205.63, 141.98	194.64, 148.56
	SD, SE	1007.450, 503.726	147.104, 60.055	664.275, 210.062	22.981, 16.250	233.177, 104.280	191.542, 72.396
	MEDIAN	313.38	122.38	152.61	167.15	109.58	138.79
	MIN, MAX	166.78, 2273.09	113.36, 482.45	113.36, 2273.09	150.90, 183.40	63.51, 619.94	63.51, 619.94
	5%, 95%	166.78, 2273.09	113.36, 482.45	113.36, 2273.09	150.90, 183.40	63.51, 619.94	63.51, 619.94
	BLQ Values Included	0	0	0	0	0	0
High school graduate/GED	N	3	7	10	2	6	8
	MEAN, GEO MEAN	945.34, 670.91	721.60, 486.88	788.72, 536.04	69.87, 57.38	114.66, 93.48	103.46, 82.74
	SD, SE	950.537, 548.793	766.063, 289.545	776.981, 245.703	56.378, 39.865	74.641, 30.472	69.738, 24.656
	MEDIAN	508.60	351.05	429.83	69.87	105.08	97.72
	MIN, MAX	291.67, 2035.76	210.15, 2333.96	210.15, 2333.96	30.00, 109.73	30.00, 237.05	30.00, 237.05
	5%, 95%	291.67, 2035.76	210.15, 2333.96	210.15, 2333.96	30.00, 109.73	30.00, 237.05	30.00, 237.05
	BLQ Values Included	0	0	0	1	1	2
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	197.44, 197.44	431.22, 431.22	314.33, 291.79	221.39, 138.45	165.14, 115.91	200.30, 129.52
	SD, SE	NA, NA	NA, NA	165.307, 116.890	281.499, 125.890	126.249, 72.890	225.128, 79.595
	MEDIAN	197.44	431.22	314.33	104.19	185.35	118.42
	MIN, MAX	197.44, 197.44	431.22, 431.22	197.44, 431.22	54.99, 722.48	30.00, 280.06	30.00, 722.48
	5%, 95%	NA, NA	NA, NA	197.44, 431.22	54.99, 722.48	30.00, 280.06	30.00, 722.48
	BLQ Values Included	0	0	0	0	1	1
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	879.28, 879.28	125.91, 125.91	502.60, 332.73	105.67, 105.67	70.47, 70.47	88.07, 86.29
	SD, SE	NA, NA	NA, NA	532.713, 376.685	NA, NA	NA, NA	24.890, 17.600
	MEDIAN	879.28	125.91	302.60	105.67	70.47	88.07
	MIN, MAX	879.28, 879.28	125.91, 125.91	125.91, 879.28	105.67, 105.67	70.47, 70.47	70.47, 105.67
	5%, 95%	NA, NA	NA, NA	125.91, 879.28	NA, NA	NA, NA	70.47, 105.67
	BLQ Values Included	0	0	0	0	0	0

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
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Lab: Madison
 Biomarker: Acetonitrile (ng/mL)
 Timepoint: Week 3

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	2	2	3	2	5
	MEAN, GEO MEAN	NA, NA	387.11, 359.63	387.11, 359.63	225.55, 163.07	107.74, 85.63	178.43, 126.03
	SD, SE	NA, NA	202.565, 143.235	202.565, 143.235	166.846, 96.329	92.475, 65.390	142.199, 63.593
	MEDIAN	NA	387.11	387.11	257.61	107.74	173.13
	MIN, MAX	NA, NA	243.87, 530.34	243.87, 530.34	45.00, 374.04	42.35, 173.13	42.35, 374.04
	5%, 95%	NA, NA	243.87, 530.34	243.87, 530.34	45.00, 374.04	42.35, 173.13	42.35, 374.04
	BLQ Values Included	NA	0	0	1	0	1
Undergraduate degree	N	2	4	6	8	10	18
	MEAN, GEO MEAN	1411.68, 965.56	135.06, 118.44	560.60, 238.37	113.42, 80.40	296.73, 160.52	215.26, 118.06
	SD, SE	1456.380, 1029.820	78.412, 39.206	928.708, 379.144	91.643, 32.401	355.588, 112.447	281.395, 66.326
	MEDIAN	1411.68	119.09	197.88	92.83	130.89	109.08
	MIN, MAX	381.86, 2441.49	67.97, 234.08	67.97, 2441.49	30.00, 263.46	30.00, 1168.91	30.00, 1168.91
	5%, 95%	381.86, 2441.49	67.97, 234.08	67.97, 2441.49	30.00, 263.46	30.00, 1168.91	30.00, 1168.91
	BLQ Values Included	0	0	0	4	1	5

TABLE 14.4-6
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
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Lab: Madlson
Biomarker: Acetonitrile (ng/mL)
Timepoint: Week 6

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	2	7	9	9	9	18
	MEAN, GEO MEAN	870.33, 849.23	516.85, 275.08	595.40, 353.39	207.72, 137.24	334.66, 188.07	271.19, 160.65
	SD, SE	269.365, 190.470	578.386, 218.609	533.163, 177.721	227.339, 75.780	270.028, 90.009	250.799, 59.114
	MEDIAN	870.33	254.94	382.84	124.87	374.73	150.84
	MIN, MAX	679.86, 1060.80	49.12, 1386.32	49.12, 1386.32	30.00, 744.35	30.00, 670.92	30.00, 744.35
	5%, 95%	679.86, 1060.80	49.12, 1386.32	49.12, 1386.32	30.00, 744.35	30.00, 670.92	30.00, 744.35
	BLQ Values Included	0	0	0	1	2	3
Completed tech/voc/trade school	N	4	6	10	2	5	7
	MEAN, GEO MEAN	393.97, 233.77	386.62, 233.63	389.56, 241.49	108.48, 108.44	105.48, 85.54	106.34, 91.54
	SD, SE	255.289, 127.644	529.705, 216.251	421.450, 133.274	3.670, 2.595	74.793, 33.448	61.104, 23.095
	MEDIAN	470.63	173.80	229.85	108.48	100.22	105.88
	MIN, MAX	31.69, 602.95	105.43, 1460.56	31.69, 1460.56	105.88, 111.07	30.00, 226.96	30.00, 226.96
	5%, 95%	31.69, 602.95	105.43, 1460.56	31.69, 1460.56	105.88, 111.07	30.00, 226.96	30.00, 226.96
	BLQ Values Included	0	0	0	0	1	1
High school graduate/GED	N	4	7	11	2	6	8
	MEAN, GEO MEAN	446.23, 407.31	403.04, 282.52	418.75, 322.72	66.65, 55.67	205.79, 144.66	171.01, 113.94
	SD, SE	213.550, 106.775	453.250, 171.312	370.698, 111.770	51.824, 36.645	165.742, 67.664	155.417, 54.948
	MEDIAN	423.89	281.08	287.54	66.65	167.44	127.13
	MIN, MAX	241.01, 696.13	132.03, 1406.38	132.03, 1406.38	30.00, 103.29	30.00, 469.84	30.00, 469.84
	5%, 95%	241.01, 696.13	132.03, 1406.38	132.03, 1406.38	30.00, 103.29	30.00, 469.84	30.00, 469.84
	BLQ Values Included	0	0	0	1	1	2
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	382.92, 382.92	578.64, 578.64	480.78, 470.72	121.05, 115.37	299.18, 216.53	187.85, 146.09
	SD, SE	NA, NA	NA, NA	138.395, 97.860	42.175, 18.861	282.562, 163.137	179.800, 63.569
	MEDIAN	382.92	578.64	480.78	119.94	193.47	129.58
	MIN, MAX	382.92, 382.92	578.64, 578.64	382.92, 578.64	81.63, 182.12	84.72, 619.36	81.63, 619.36
	5%, 95%	NA, NA	NA, NA	382.92, 578.64	81.63, 182.12	84.72, 619.36	81.63, 619.36
	BLQ Values Included	0	0	0	0	0	0
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	482.63, 482.63	99.35, 99.35	290.99, 218.97	886.61, 886.61	30.00, 30.00	458.31, 163.09
	SD, SE	NA, NA	NA, NA	271.020, 191.640	NA, NA	NA, NA	605.715, 428.305
	MEDIAN	482.63	99.35	290.99	886.61	30.00	458.31
	MIN, MAX	482.63, 482.63	99.35, 99.35	99.35, 482.63	886.61, 886.61	30.00, 30.00	30.00, 886.61
	5%, 95%	NA, NA	NA, NA	99.35, 482.63	NA, NA	NA, NA	30.00, 886.61
	BLQ Values Included	0	0	0	0	1	1

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
 (Page 8 of 7)

Lab: Madison
 Biomarker: Acetonitrile (ng/mL)
 Timepoint: Week 6

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	2	2	3	2	5
	MEAN, GEO MEAN	NA, NA	238.12, 202.43	238.12, 202.43	335.34, 192.58	205.06, 106.79	283.23, 152.11
	SD, SE	NA, NA	177.342, 125.400	177.342, 125.400	264.613, 152.774	247.565, 175.055	235.424, 105.285
	MEDIAN	NA	238.12	238.12	478.23	205.06	380.11
	MIN, MAX	NA, NA	112.72, 363.52	112.72, 363.52	30.00, 497.79	30.00, 380.11	30.00, 497.79
	5%, 95%	NA, NA	112.72, 363.52	112.72, 363.52	30.00, 497.79	30.00, 380.11	30.00, 497.79
	BLQ Values Included	NA	0	0	1	1	2
Undergraduate degree	N	1	4	5	8	10	18
	MEAN, GEO MEAN	590.65, 590.65	508.92, 230.96	525.27, 278.67	173.74, 101.12	291.79, 173.45	239.32, 136.47
	SD, SE	NA, NA	771.646, 385.823	669.264, 299.304	198.795, 70.285	306.540, 96.936	263.937, 62.211
	MEDIAN	590.65	136.44	169.32	85.85	152.46	125.46
	MIN, MAX	590.65, 590.65	97.44, 1665.36	97.44, 1665.36	30.00, 575.77	30.00, 947.37	30.00, 947.37
	5%, 95%	NA, NA	97.44, 1665.36	97.44, 1665.36	30.00, 575.77	30.00, 947.37	30.00, 947.37
	BLQ Values Included	0	0	0	3	1	4

TABLE 14.4-6
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
(Page 9 of 7)

Lab: Madison
Biomarker: Acetonitrile (ng/mL)
Timepoint: Overall*

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	3	8	11	9	9	18
	MEAN, GEO MEAN	679.48, 599.72	348.77, 286.59	438.96, 350.53	275.11, 252.96	230.27, 173.66	252.69, 209.59
	SD, SE	432.888, 249.928	235.056, 83.105	316.256, 95.355	110.382, 36.794	170.644, 56.881	141.313, 33.308
	MEDIAN	481.97	284.87	380.58	294.72	201.43	251.35
	MIN, MAX	380.58, 1175.90	140.28, 740.98	140.28, 1175.90	116.59, 452.37	30.00, 599.86	30.00, 599.86
	5%, 95%	380.58, 1175.90	140.28, 740.98	140.28, 1175.90	116.59, 452.37	30.00, 599.86	30.00, 599.86
Completed tech/voc/trade school	N	4	6	10	2	5	7
	MEAN, GEO MEAN	523.73, 442.90	250.23, 209.28	359.63, 282.46	117.99, 117.98	112.00, 94.66	113.71, 100.81
	SD, SE	354.364, 177.182	185.493, 75.727	284.465, 89.956	1.853, 1.310	84.253, 37.679	68.858, 26.026
	MEDIAN	431.98	189.12	247.20	117.99	86.35	91.09
	MIN, MAX	210.12, 1020.82	111.46, 608.95	111.46, 1020.82	116.68, 119.30	57.20, 260.56	57.20, 260.56
	5%, 95%	210.12, 1020.82	111.46, 608.95	111.46, 1020.82	116.68, 119.30	57.20, 260.56	57.20, 260.56
High school graduate/GED	N	4	7	11	2	6	8
	MEAN, GEO MEAN	550.52, 479.17	475.05, 424.82	502.49, 443.83	132.17, 131.33	185.88, 166.45	172.46, 156.87
	SD, SE	346.138, 173.069	222.115, 83.952	258.832, 78.041	21.072, 14.900	86.087, 35.145	77.300, 27.330
	MEDIAN	457.21	506.35	463.83	132.17	175.32	157.04
	MIN, MAX	241.01, 1046.64	180.23, 775.61	180.23, 1046.64	117.27, 147.07	61.81, 321.43	61.81, 321.43
	5%, 95%	241.01, 1046.64	180.23, 775.61	180.23, 1046.64	117.27, 147.07	61.81, 321.43	61.81, 321.43
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	390.54, 390.54	464.46, 464.46	427.50, 425.90	163.75, 148.85	145.79, 144.08	157.02, 147.04
	SD, SE	NA, NA	NA, NA	52.269, 36.960	87.967, 39.340	28.035, 16.186	68.795, 24.323
	MEDIAN	390.54	464.46	427.50	132.26	136.31	134.29
	MIN, MAX	390.54, 390.54	464.46, 464.46	390.54, 464.46	100.55, 313.30	123.73, 177.34	100.55, 313.30
	5%, 95%	NA, NA	NA, NA	390.54, 464.46	100.55, 313.30	123.73, 177.34	100.55, 313.30
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	594.50, 594.50	116.24, 116.24	355.37, 262.88	300.11, 300.11	40.12, 40.12	170.12, 109.73
	SD, SE	NA, NA	NA, NA	338.181, 239.130	NA, NA	NA, NA	183.841, 129.995
	MEDIAN	594.50	116.24	355.37	300.11	40.12	170.12
	MIN, MAX	594.50, 594.50	116.24, 116.24	116.24, 594.50	300.11, 300.11	40.12, 40.12	40.12, 300.11
	5%, 95%	NA, NA	NA, NA	116.24, 594.50	NA, NA	NA, NA	40.12, 300.11

* Overall values calculated by first averaging the results across visits within a subject, then calculating the descriptive statistics across subjects. Count of BLQ values does not apply as the BLQ values were converted to the upper limit of the BLQ (e.g., '<1.234' will be used as '1.234') for the averages across visits within a subject thus eliminating all BLQ values for the overall statistics.

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
 (Page 10 of 2)

Lab: Madison
 Biomarker: Acetonitrile (ng/mL)
 Timepoint: Overall*

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	3	3	3	2	5
	MEAN, GEO MEAN	NA, NA	226.77, 226.08	226.77, 226.08	163.38, 150.73	118.84, 117.54	145.56, 136.46
	SD, SE	NA, NA	21.614, 12.479	21.614, 12.479	75.011, 43.307	24.728, 17.485	59.677, 26.688
	MEDIAN	NA	229.39	229.39	166.40	118.84	136.32
	MIN, MAX	NA, NA	203.97, 246.96	203.97, 246.96	86.90, 236.83	101.35, 136.32	86.90, 236.83
	5%, 95%	NA, NA	203.97, 246.96	203.97, 246.96	86.90, 236.83	101.35, 136.32	86.90, 236.83
Undergraduate degree	N	2	6	8	8	10	18
	MEAN, GEO MEAN	941.64, 823.62	293.20, 179.53	455.31, 262.75	129.70, 116.30	273.97, 206.96	209.85, 160.19
	SD, SE	645.497, 456.435	359.339, 146.700	491.787, 173.873	59.796, 21.141	211.227, 66.796	174.741, 41.187
	MEDIAN	941.64	120.70	254.56	121.51	206.00	158.52
	MIN, MAX	485.20, 1398.07	82.80, 995.06	82.80, 1398.07	41.94, 233.23	44.47, 701.92	41.94, 701.92
	5%, 95%	485.20, 1398.07	82.80, 995.06	82.80, 1398.07	41.94, 233.23	44.47, 701.92	41.94, 701.92

* Overall values calculated by first averaging the results across visits within a subject, then calculating the descriptive statistics across subjects. Count of BLQ values does not apply as the BLQ values were converted to the upper limit of the BLQ (e.g., '<1.234' will be used as '1.234') for the averages across visits within a subject thus eliminating all BLQ values for the overall statistics.

TABLE 14.4-6
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
(Page 11 of 7)

Lab: Madison
Biomarker: Acetonitrile (nmol/L)
Timepoint: Week 1

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	3	8	11	9	9	18
	MEAN, GEO MEAN	10273.1, 8356.1	3901.4, 3696.3	5639.1, 4617.2	7931.3, 4108.2	5502.1, 2753.9	6716.7, 3363.6
	SD, SE	8433.85, 4869.29	1522.70, 538.36	4970.58, 1498.69	10698.50, 3566.16	7737.34, 2579.11	9143.14, 2155.06
	MEDIAN	5654.7	3461.8	3700.2	4752.1	2152.8	2762.4
	MIN, MAX	5157.1, 20007.4	2606.2, 7225.5	2606.2, 20007.4	731.4, 35030.4	731.4, 23713.9	731.4, 35030.4
	5%, 95%	5157.1, 20007.4	2606.2, 7225.5	2606.2, 20007.4	731.4, 35030.4	731.4, 23713.9	731.4, 35030.4
	BLQ Values Included	0	0	0	2	2	4
Completed tech/voc/trade school	N	4	6	10	2	5	7
	MEAN, GEO MEAN	7794.9, 6211.1	4768.6, 4353.6	5979.1, 5018.5	2411.8, 2401.3	1729.6, 1562.9	1924.5, 1766.9
	SD, SE	6695.83, 3347.92	1996.34, 815.00	4427.30, 1400.04	318.06, 224.90	767.60, 343.28	721.45, 272.68
	MEDIAN	5103.0	5476.0	5343.4	2411.8	2154.9	2186.9
	MIN, MAX	3226.7, 17746.7	2255.6, 7254.0	2255.6, 17746.7	2186.9, 2636.7	731.4, 2435.6	731.4, 2636.7
	5%, 95%	3226.7, 17746.7	2255.6, 7254.0	2255.6, 17746.7	2186.9, 2636.7	731.4, 2435.6	731.4, 2636.7
	BLQ Values Included	1	0	1	0	1	1
High school graduate/GED	N	3	7	10	2	6	8
	MEAN, GEO MEAN	16559.9, 16433.4	4924.0, 4422.1	8414.8, 6556.3	1959.4, 1895.4	3756.2, 2690.4	3307.0, 2464.9
	SD, SE	2526.48, 1458.66	2319.41, 876.65	6049.53, 1913.03	702.30, 496.60	3775.53, 1541.36	3308.20, 1169.63
	MEDIAN	16170.3	4490.3	5534.3	1959.4	2518.5	2414.8
	MIN, MAX	14250.8, 19258.5	1620.8, 9118.4	1620.8, 19258.5	1462.8, 2456.0	731.4, 11267.7	731.4, 11267.7
	5%, 95%	14250.8, 19258.5	1620.8, 9118.4	1620.8, 19258.5	1462.8, 2456.0	731.4, 11267.7	731.4, 11267.7
	BLQ Values Included	0	0	0	1	1	2
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	16970.2, 16970.2	9415.6, 9415.6	13192.9, 12640.6	3145.6, 2753.1	1268.3, 1186.8	2441.6, 2008.0
	SD, SE	NA, NA	NA, NA	5341.91, 3777.30	1609.46, 719.77	540.89, 312.28	1583.60, 559.89
	MEDIAN	16970.2	9415.6	13192.9	3611.2	1260.4	1920.3
	MIN, MAX	16970.2, 16970.2	9415.6, 9415.6	9415.6, 16970.2	1097.1, 5220.7	731.4, 1813.1	731.4, 5220.7
	5%, 95%	NA, NA	NA, NA	9415.6, 16970.2	1097.1, 5220.7	731.4, 1813.1	731.4, 5220.7
	BLQ Values Included	0	0	0	1	1	2
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	7755.0, 7755.0	3072.6, 3072.6	5413.8, 4881.4	2823.9, 2823.9	731.4, 731.4	1777.7, 1437.2
	SD, SE	NA, NA	NA, NA	3310.96, 2341.20	NA, NA	NA, NA	1479.62, 1046.25
	MEDIAN	7755.0	3072.6	5413.8	2823.9	731.4	1777.7
	MIN, MAX	7755.0, 7755.0	3072.6, 3072.6	3072.6, 7755.0	2823.9, 2823.9	731.4, 731.4	731.4, 2823.9
	5%, 95%	NA, NA	NA, NA	3072.6, 7755.0	NA, NA	NA, NA	731.4, 2823.9
	BLQ Values Included	0	0	0	0	1	1

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
 (Page 12 of 2)

Lab: Madison
 Biomarker: Acetonitrile (nmol/L)
 Timepoint: Week 1

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	3	3	3	2	5
	MEAN, GEO MEAN	NA, NA	3556.0, 3376.1	3556.0, 3376.1	1208.0, 1148.7	2076.3, 1858.6	1555.3, 1392.5
	SD, SE	NA, NA	1472.69, 850.26	1472.69, 850.26	435.57, 251.48	1309.00, 925.60	865.68, 387.14
	MEDIAN	NA	2727.6	2727.6	1307.3	2076.3	1307.3
	MIN, MAX	NA, NA	2684.0, 5256.3	2684.0, 5256.3	731.4, 1585.4	1150.7, 3001.9	731.4, 3001.9
	5%, 95%	NA, NA	2684.0, 5256.3	2684.0, 5256.3	731.4, 1585.4	1150.7, 3001.9	731.4, 3001.9
	BLQ Values Included	NA	0	0	1	0	1
Undergraduate degree	N	2	6	8	8	10	18
	MEAN, GEO MEAN	20157.2, 15674.8	9310.4, 4823.6	12022.1, 6476.4	2910.5, 2204.1	7012.9, 2551.9	5189.6, 2391.0
	SD, SE	17922.70, 12673.30	13680.70, 5585.14	14310.40, 5059.49	2241.28, 792.41	12043.90, 3808.62	9124.85, 2150.75
	MEDIAN	20157.2	3325.6	5543.8	2295.2	2070.1	2070.1
	MIN, MAX	7483.9, 32830.4	1832.4, 36765.3	1832.4, 36765.3	731.4, 7274.0	731.4, 37096.9	731.4, 37096.9
	5%, 95%	7483.9, 32830.4	1832.4, 36765.3	1832.4, 36765.3	731.4, 7274.0	731.4, 37096.9	731.4, 37096.9
	BLQ Values Included	0	0	0	3	2	5

TABLE 14.4-6
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
(Page 13 of 7)

Lab: Madison
Biomarker: Acetonitrile (nmol/L)
Timepoint: Week 2

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	3	8	11	9	9	18
	MEAN, GEO MEAN	9817.5, 8375.6	7435.7, 5234.5	8085.3, 5950.4	5597.7, 3588.5	6052.3, 3137.3	5825.0, 3355.3
	SD, SE	7000.25, 4041.60	5556.62, 1964.56	5714.17, 1722.89	5114.77, 1704.92	6772.36, 2257.45	5826.59, 1373.34
	MEDIAN	6703.3	5536.5	6703.3	5065.2	2748.6	3965.9
	MIN, MAX	4914.8, 17834.5	731.4, 14926.9	731.4, 17834.5	731.4, 16782.5	731.4, 18449.3	731.4, 18449.3
	5%, 95%	4914.8, 17834.5	731.4, 14926.9	731.4, 17834.5	731.4, 16782.5	731.4, 18449.3	731.4, 18449.3
	BLQ Values Included	0	1	1	2	3	5
Completed tech/voc/trade school	N	4	6	10	2	5	7
	MEAN, GEO MEAN	14982.6, 9940.6	5752.0, 4698.6	9444.2, 6340.9	2374.5, 2362.8	1607.9, 1456.2	1826.9, 1672.1
	SD, SE	16023.30, 8011.67	4112.88, 1679.08	10849.00, 3430.76	333.61, 235.90	723.09, 323.37	712.07, 269.14
	MEDIAN	9050.5	4914.8	6523.5	2374.5	1848.0	2138.6
	MIN, MAX	3345.4, 38483.8	1917.7, 13166.7	1917.7, 38483.8	2138.6, 2610.4	731.4, 2326.8	731.4, 2610.4
	5%, 95%	3345.4, 38483.8	1917.7, 13166.7	1917.7, 38483.8	2138.6, 2610.4	731.4, 2326.8	731.4, 2610.4
	BLQ Values Included	0	0	0	0	1	1
High school graduate/GED	N	3	7	10	2	6	8
	MEAN, GEO MEAN	11593.0, 9953.6	13983.9, 9447.3	13266.6, 9596.4	7601.3, 7600.8	6558.4, 4610.0	6819.1, 5223.8
	SD, SE	7535.05, 4350.36	14176.90, 5358.35	12163.10, 3846.29	119.50, 84.50	5305.18, 2165.83	4509.83, 1594.47
	MEDIAN	10002.6	5381.2	7691.9	7601.3	4964.5	6426.7
	MIN, MAX	4980.1, 19796.3	4238.0, 41487.0	4238.0, 41487.0	7516.8, 7685.8	884.3, 14886.9	884.3, 14886.9
	5%, 95%	4980.1, 19796.3	4238.0, 41487.0	4238.0, 41487.0	7516.8, 7685.8	884.3, 14886.9	884.3, 14886.9
	BLQ Values Included	0	0	0	0	0	0
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	6966.1, 6966.1	11258.0, 11258.0	9112.1, 8855.8	4474.9, 4310.8	1629.2, 1464.1	3407.8, 2875.4
	SD, SE	NA, NA	NA, NA	3034.83, 2145.95	1240.19, 554.63	795.02, 459.00	1796.82, 635.27
	MEDIAN	6966.1	11258.0	9112.1	4727.3	1912.4	3320.8
	MIN, MAX	6966.1, 6966.1	11258.0, 11258.0	6966.1, 11258.0	2537.5, 5708.3	731.4, 2243.9	731.4, 5708.3
	5%, 95%	NA, NA	NA, NA	6966.1, 11258.0	2537.5, 5708.3	731.4, 2243.9	731.4, 5708.3
	BLQ Values Included	0	0	0	0	1	1
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	17016.8, 17016.8	2770.8, 2770.8	9893.8, 6866.6	2250.8, 2250.8	731.4, 731.4	1491.1, 1283.1
	SD, SE	NA, NA	NA, NA	10073.40, 7123.00	NA, NA	NA, NA	1074.38, 759.70
	MEDIAN	17016.8	2770.8	9893.8	2250.8	731.4	1491.1
	MIN, MAX	17016.8, 17016.8	2770.8, 2770.8	2770.8, 17016.8	2250.8, 2250.8	731.4, 731.4	731.4, 2250.8
	5%, 95%	NA, NA	NA, NA	2770.8, 17016.8	NA, NA	NA, NA	731.4, 2250.8
	BLQ Values Included	0	0	0	0	1	1

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
 (Page 14 of 2)

Lab: Madison
 Biomarker: Acetonitrile (nmol/L)
 Timepoint: Week 2

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	3	3	3	2	5
	MEAN, GEO MEAN	NA, NA	4668.5, 3702.5	4668.5, 3702.5	1030.0, 966.4	1886.4, 1885.9	1384.5, 1262.7
	SD, SE	NA, NA	3552.43, 2050.99	3552.43, 2050.99	551.77, 318.57	60.53, 42.80	602.52, 269.45
	MEDIAN	NA	4019.3	4019.3	731.4	1886.4	1687.1
	MIN, MAX	NA, NA	1485.5, 8500.8	1485.5, 8500.8	731.4, 1687.1	1843.6, 1929.2	731.4, 1929.2
	5%, 95%	NA, NA	1485.5, 8500.8	1485.5, 8500.8	731.4, 1687.1	1843.6, 1929.2	731.4, 1929.2
	BLQ Values Included	NA	0	0	2	0	2
Undergraduate degree	N	2	5	7	8	10	18
	MEAN, GEO MEAN	13011.8, 12634.4	4546.0, 3006.2	6964.8, 4530.7	2736.6, 1978.2	5356.3, 3616.1	4192.0, 2765.7
	SD, SE	4399.26, 3110.75	5324.24, 2381.07	6260.02, 2366.06	2400.24, 848.61	4467.10, 1412.62	3838.08, 904.65
	MEDIAN	13011.8	2177.4	3400.5	1797.2	3476.1	2363.4
	MIN, MAX	9901.0, 16122.5	1186.3, 13964.4	1186.3, 16122.5	731.4, 7531.5	784.3, 12358.2	731.4, 12358.2
	5%, 95%	9901.0, 16122.5	1186.3, 13964.4	1186.3, 16122.5	731.4, 7531.5	784.3, 12358.2	731.4, 12358.2
	BLQ Values Included	0	0	0	3	0	3

TABLE 14.4-6
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
(Page 15 of 2)

Lab: Madison
Biomarker: Acetonitrile (nmol/L)
Timepoint: Week 3

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	3	8	11	8	9	17
	MEAN, GEO MEAN	28110.2, 18008.1	10462.0, 6900.0	15275.1, 8963.4	8693.4, 7861.5	2742.6, 2419.5	5543.0, 4212.8
	SD, SE	32240.90, 18614.30	10468.60, 3701.21	18776.70, 5661.38	3744.00, 1323.71	1458.94, 486.31	4070.73, 987.30
	MEDIAN	10467.6	7015.6	8540.8	8676.2	2652.5	3173.3
	MIN, MAX	8540.8, 65322.1	1135.9, 33872.4	1135.9, 65322.1	3173.3, 13864.7	731.4, 6159.9	731.4, 13864.7
	5%, 95%	8540.8, 65322.1	1135.9, 33872.4	1135.9, 65322.1	3173.3, 13864.7	731.4, 6159.9	731.4, 13864.7
	BLQ Values Included	0	0	0	0	1	1
Completed tech/voc/trade school	N	4	6	10	2	5	7
	MEAN, GEO MEAN	18691.1, 10643.8	4455.3, 3752.6	10149.6, 5694.3	4075.1, 4055.8	5013.4, 3461.5	4745.3, 3621.8
	SD, SE	24561.60, 12280.80	3586.39, 1464.14	16195.00, 5121.31	560.31, 396.20	5684.83, 2542.33	4669.78, 1765.01
	MEDIAN	7640.1	2983.6	3720.7	4075.1	2671.6	3383.7
	MIN, MAX	4066.1, 55417.9	2763.7, 11762.1	2763.7, 55417.9	3678.9, 4471.3	1548.4, 15114.1	1548.4, 15114.1
	5%, 95%	4066.1, 55417.9	2763.7, 11762.1	2763.7, 55417.9	3678.9, 4471.3	1548.4, 15114.1	1548.4, 15114.1
	BLQ Values Included	0	0	0	0	0	0
High school graduate/GED	N	3	7	10	2	6	8
	MEAN, GEO MEAN	23047.5, 16356.8	17592.5, 11870.2	19229.0, 13068.6	1703.3, 1398.8	2795.3, 2279.2	2522.3, 2017.3
	SD, SE	23174.10, 13379.60	18676.60, 7059.09	18942.80, 5990.23	1374.47, 971.90	1819.75, 742.91	1700.22, 601.12
	MEDIAN	12399.7	8558.6	10479.2	1703.3	2561.7	2382.4
	MIN, MAX	7110.9, 49631.8	5123.5, 56901.9	5123.5, 56901.9	731.4, 2675.2	731.4, 5779.3	731.4, 5779.3
	5%, 95%	7110.9, 49631.8	5123.5, 56901.9	5123.5, 56901.9	731.4, 2675.2	731.4, 5779.3	731.4, 5779.3
	BLQ Values Included	0	0	0	1	1	2
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	4813.6, 4813.6	10513.1, 10513.1	7663.4, 7113.8	5397.5, 3375.4	4026.0, 2825.9	4883.2, 3157.8
	SD, SE	NA, NA	NA, NA	4030.16, 2849.75	6862.95, 3069.21	3077.98, 1777.07	5488.63, 1940.52
	MEDIAN	4813.6	10513.1	7663.4	2540.2	4518.8	2887.1
	MIN, MAX	4813.6, 4813.6	10513.1, 10513.1	4813.6, 10513.1	1340.7, 17614.1	731.4, 6827.9	731.4, 17614.1
	5%, 95%	NA, NA	NA, NA	4813.6, 10513.1	1340.7, 17614.1	731.4, 6827.9	731.4, 17614.1
	BLQ Values Included	0	0	0	0	1	1
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	21436.8, 21436.8	3069.7, 3069.7	12253.3, 8112.0	2576.2, 2576.2	1718.1, 1718.1	2147.2, 2103.8
	SD, SE	NA, NA	NA, NA	12987.50, 9183.55	NA, NA	NA, NA	606.77, 429.05
	MEDIAN	21436.8	3069.7	12253.3	2576.2	1718.1	2147.2
	MIN, MAX	21436.8, 21436.8	3069.7, 3069.7	3069.7, 21436.8	2576.2, 2576.2	1718.1, 1718.1	1718.1, 2576.2
	5%, 95%	NA, NA	NA, NA	3069.7, 21436.8	NA, NA	NA, NA	1718.1, 2576.2
	BLQ Values Included	0	0	0	0	0	0

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
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Lab: Madison
 Biomarker: Acetonitrile (nmol/L)
 Timepoint: Week 3

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	2	2	3	2	5
	MEAN, GEO MEAN	NA, NA	9437.7, 8767.8	9437.7, 8767.8	5498.9, 3975.6	2626.7, 2087.6	4350.0, 3072.5
	SD, SE	NA, NA	4938.50, 3492.05	4938.50, 3492.05	4067.71, 2348.50	2254.54, 1594.20	3466.81, 1550.40
	MEDIAN	NA	9437.7	9437.7	6280.5	2626.7	4220.9
	MIN, MAX	NA, NA	5945.6, 12929.7	5945.6, 12929.7	1097.1, 9119.1	1032.5, 4220.9	1032.5, 9119.1
	5%, 95%	NA, NA	5945.6, 12929.7	5945.6, 12929.7	1097.1, 9119.1	1032.5, 4220.9	1032.5, 9119.1
	BLQ Values Included	NA	0	0	1	0	1
Undergraduate degree	N	2	4	6	8	10	18
	MEAN, GEO MEAN	34416.6, 23540.3	3292.7, 2887.5	13667.3, 5811.4	2765.1, 1960.3	7234.2, 3913.5	5247.9, 2878.2
	SD, SE	35506.50, 25106.90	1911.70, 955.85	22641.90, 9243.51	2234.26, 789.93	8669.22, 2741.45	6860.41, 1617.01
	MEDIAN	34416.6	2903.3	4824.4	2263.2	3191.1	2659.4
	MIN, MAX	9309.7, 59523.5	1657.1, 5706.9	1657.1, 59523.5	731.4, 6423.2	731.4, 28498.0	731.4, 28498.0
	5%, 95%	9309.7, 59523.5	1657.1, 5706.9	1657.1, 59523.5	731.4, 6423.2	731.4, 28498.0	731.4, 28498.0
	BLQ Values Included	0	0	0	4	1	5

TABLE 14.4-6
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
(Page 17 of 7)

Lab: Madison
Biomarker: Acetonitrile (nmol/L)
Timepoint: Week 6

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	2	7	9	9	9	18
	MEAN, GEO MEAN	21218.7, 20704.3	12600.7, 6706.5	14515.8, 8615.6	5064.2, 3345.8	8159.1, 4585.1	6611.7, 3916.8
	SD, SE	6567.11, 4643.65	14101.10, 5329.70	12998.50, 4332.85	5542.54, 1847.51	6583.27, 2194.42	6114.48, 1441.20
	MEDIAN	21218.7	6215.4	9333.6	3044.3	9135.9	3677.4
	MIN, MAX	16575.0, 25862.3	1197.5, 33798.5	1197.5, 33798.5	731.4, 18147.3	731.4, 16357.0	731.4, 18147.3
	5%, 95%	16575.0, 25862.3	1197.5, 33798.5	1197.5, 33798.5	731.4, 18147.3	731.4, 16357.0	731.4, 18147.3
	BLQ Values Included	0	0	0	1	2	3
Completed tech/voc/trade school	N	4	6	10	2	5	7
	MEAN, GEO MEAN	9605.0, 6187.0	9425.9, 5695.8	9497.6, 5887.4	2644.7, 2643.9	2571.7, 2085.6	2592.6, 2231.8
	SD, SE	6223.93, 3111.97	12914.20, 5272.21	10275.00, 3249.23	89.45, 63.25	1823.45, 815.47	1489.71, 563.06
	MEDIAN	11473.8	4237.2	5603.8	2644.7	2443.4	2581.4
	MIN, MAX	772.6, 14699.9	2570.4, 35608.5	772.6, 35608.5	2581.4, 2707.9	731.4, 5533.3	731.4, 5533.3
	5%, 95%	772.6, 14699.9	2570.4, 35608.5	772.6, 35608.5	2581.4, 2707.9	731.4, 5533.3	731.4, 5533.3
	BLQ Values Included	0	0	0	0	1	1
High school graduate/GED	N	4	7	11	2	6	8
	MEAN, GEO MEAN	10879.0, 9930.3	9826.2, 6887.9	10209.0, 7867.9	1624.8, 1357.1	5017.2, 3526.9	4169.1, 2777.8
	SD, SE	5206.36, 2603.18	11050.20, 4176.59	9037.61, 2724.94	1263.46, 893.40	4040.79, 1649.65	3789.07, 1339.64
	MEDIAN	10334.3	6852.7	7010.2	1624.8	4082.1	3099.3
	MIN, MAX	5875.8, 16971.6	3218.9, 34287.5	3218.9, 34287.5	731.4, 2518.2	731.4, 11454.7	731.4, 11454.7
	5%, 95%	5875.8, 16971.6	3218.9, 34287.5	3218.9, 34287.5	731.4, 2518.2	731.4, 11454.7	731.4, 11454.7
	BLQ Values Included	0	0	0	1	1	2
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	9335.6, 9335.6	14107.2, 14107.2	11721.4, 11476.0	2951.1, 2812.6	7294.1, 5279.0	4579.7, 3561.6
	SD, SE	NA, NA	NA, NA	3374.03, 2385.80	1028.23, 459.84	6888.86, 3977.29	4383.53, 1549.81
	MEDIAN	9335.6	14107.2	11721.4	2924.1	4716.8	3159.2
	MIN, MAX	9335.6, 9335.6	14107.2, 14107.2	9335.6, 14107.2	1990.1, 4440.1	2065.5, 15100.0	1990.1, 15100.0
	5%, 95%	NA, NA	NA, NA	9335.6, 14107.2	1990.1, 4440.1	2065.5, 15100.0	1990.1, 15100.0
	BLQ Values Included	0	0	0	0	0	0
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	11766.5, 11766.5	2422.2, 2422.2	7094.4, 5338.6	21615.6, 21615.6	731.4, 731.4	11173.5, 3976.1
	SD, SE	NA, NA	NA, NA	6607.42, 4672.15	NA, NA	NA, NA	14767.40, 10442.10
	MEDIAN	11766.5	2422.2	7094.4	21615.6	731.4	11173.5
	MIN, MAX	11766.5, 11766.5	2422.2, 2422.2	2422.2, 11766.5	21615.6, 21615.6	731.4, 731.4	731.4, 21615.6
	5%, 95%	NA, NA	NA, NA	2422.2, 11766.5	NA, NA	NA, NA	731.4, 21615.6
	BLQ Values Included	0	0	0	0	1	1

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
 (Page 18 of 2)

Lab: Madison
 Biomarker: Acetonitrile (nmol/L)
 Timepoint: Week 6

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	2	2	3	2	5
	MEAN, GEO MEAN	NA, NA	5805.4, 4935.1	5805.4, 4935.1	8175.6, 4695.0	4999.3, 2603.5	6905.0, 3708.5
	SD, SE	NA, NA	4323.60, 3057.25	4323.60, 3057.25	6451.25, 3724.63	6035.65, 4267.85	5739.62, 2566.84
	MEDIAN	NA	5805.4	5805.4	11659.2	4999.3	9267.1
	MIN, MAX	NA, NA	2748.1, 8862.6	2748.1, 8862.6	731.4, 12136.1	731.4, 9267.1	731.4, 12136.1
	5%, 95%	NA, NA	2748.1, 8862.6	2748.1, 8862.6	731.4, 12136.1	731.4, 9267.1	731.4, 12136.1
	BLQ Values Included	NA	0	0	1	1	2
Undergraduate degree	N	1	4	5	8	10	18
	MEAN, GEO MEAN	14400.0, 14400.0	12407.5, 5630.8	12806.0, 6794.1	4235.8, 2465.3	7113.8, 4228.8	5834.7, 3327.1
	SD, SE	NA, NA	18812.70, 9406.37	16316.70, 7297.04	4846.62, 1713.54	7473.43, 2363.31	6434.79, 1516.69
	MEDIAN	14400.0	3326.4	4128.0	2092.9	3716.9	3058.7
	MIN, MAX	14400.0, 14400.0	2375.6, 40601.5	2375.6, 40601.5	731.4, 14037.3	731.4, 23096.9	731.4, 23096.9
	5%, 95%	NA, NA	2375.6, 40601.5	2375.6, 40601.5	731.4, 14037.3	731.4, 23096.9	731.4, 23096.9
	BLQ Values Included	0	0	0	3	1	4

TABLE 14.4-6
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
(Page 19 of 7)

Lab: Madison
Biomarker: Acetonitrile (nmol/L)
Timepoint: Overall^a

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	3	8	11	9	9	18
	MEAN, GEO MEAN	16565.8, 14621.1	8502.8, 6987.0	10701.8, 8545.8	6707.2, 6167.2	5614.0, 4233.8	6160.6, 5109.9
	SD, SE	10553.80, 6093.21	5730.67, 2026.10	7710.33, 2324.75	2691.07, 897.02	4160.36, 1386.79	3445.21, 812.04
	MEDIAN	11750.5	6944.9	9278.6	7185.2	4910.9	6128.0
	MIN, MAX	9278.6, 28668.4	3419.9, 18065.1	3419.9, 28668.4	2842.5, 11028.7	731.4, 14624.7	731.4, 14624.7
	5%, 95%	9278.6, 28668.4	3419.9, 18065.1	3419.9, 28668.4	2842.5, 11028.7	731.4, 14624.7	731.4, 14624.7
Completed tech/voc/trade school	N	4	6	10	2	5	7
	MEAN, GEO MEAN	12768.4, 10797.8	6100.5, 5102.2	8767.6, 6886.4	2876.6, 2876.4	2730.7, 2307.7	2772.3, 2457.6
	SD, SE	8639.42, 4319.71	4522.38, 1846.25	6935.30, 2193.13	45.18, 31.95	2054.11, 918.62	1678.78, 634.52
	MEDIAN	10531.7	4610.7	6026.7	2876.6	2105.1	2220.8
	MIN, MAX	5122.7, 24887.6	2717.3, 14846.3	2717.3, 24887.6	2844.6, 2908.5	1394.5, 6352.5	1394.5, 6352.5
	5%, 95%	5122.7, 24887.6	2717.3, 14846.3	2717.3, 24887.6	2844.6, 2908.5	1394.5, 6352.5	1394.5, 6352.5
High school graduate/GED	N	4	7	11	2	6	8
	MEAN, GEO MEAN	13421.5, 11682.2	11581.7, 10356.9	12250.7, 10820.5	3222.2, 3201.7	4531.8, 4057.9	4204.4, 3824.4
	SD, SE	8438.87, 4219.44	5415.17, 2046.74	6310.35, 1902.64	513.78, 363.30	2098.82, 856.84	1884.59, 666.30
	MEDIAN	11146.6	12344.7	11308.2	3222.2	4274.1	3828.5
	MIN, MAX	5875.8, 25517.1	4394.0, 18909.3	4394.0, 25517.1	2858.9, 3585.5	1506.9, 7836.5	1506.9, 7836.5
	5%, 95%	5875.8, 25517.1	4394.0, 18909.3	4394.0, 25517.1	2858.9, 3585.5	1506.9, 7836.5	1506.9, 7836.5
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	9521.4, 9521.4	11323.5, 11323.5	10422.5, 10383.4	3992.3, 3628.9	3554.5, 3512.7	3828.1, 3584.9
	SD, SE	NA, NA	NA, NA	1274.28, 901.05	2144.64, 959.11	683.50, 394.62	1677.23, 592.99
	MEDIAN	9521.4	11323.5	10422.5	3224.5	3323.2	3273.9
	MIN, MAX	9521.4, 9521.4	11323.5, 11323.5	9521.4, 11323.5	2451.5, 7638.3	3016.6, 4323.6	2451.5, 7638.3
	5%, 95%	NA, NA	NA, NA	9521.4, 11323.5	2451.5, 7638.3	3016.6, 4323.6	2451.5, 7638.3
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	14493.8, 14493.8	2833.8, 2833.8	8663.8, 6408.8	7316.6, 7316.6	978.1, 978.1	4147.4, 2675.1
	SD, SE	NA, NA	NA, NA	8244.87, 5890.00	NA, NA	NA, NA	4482.00, 3169.25
	MEDIAN	14493.8	2833.8	8663.8	7316.6	978.1	4147.4
	MIN, MAX	14493.8, 14493.8	2833.8, 2833.8	2833.8, 14493.8	7316.6, 7316.6	978.1, 978.1	978.1, 7316.6
	5%, 95%	NA, NA	NA, NA	2833.8, 14493.8	NA, NA	NA, NA	978.1, 7316.6

^a Overall values calculated by first averaging the results across visits within a subject, then calculating the descriptive statistics across subjects. Count of BLQ values does not apply as the BLQ values were converted to the upper limit of the BLQ (e.g., '<1.234' will be used as '1.234') for the averages across visits within a subject thus eliminating all BLQ values for the overall statistics.

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
 (Page 20 of 2)

Lab: Madison
 Biomarker: Acetonitrile (nmol/L)
 Timepoint: Overall*

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	3	3	3	2	5
	MEAN, GEO MEAN	NA, NA	5528.7, 5511.7	5528.7, 5511.7	3983.1, 3674.9	2897.2, 2865.7	3548.8, 3326.9
	SD, SE	NA, NA	527.05, 304.29	527.05, 304.29	1828.67, 1055.78	602.88, 426.30	1454.87, 650.64
	MEDIAN	NA	5592.4	5592.4	4056.9	2897.2	3323.5
	MIN, MAX	NA, NA	4972.7, 6021.0	4972.7, 6021.0	2118.7, 5773.8	2470.9, 3323.5	2118.7, 5773.8
	5%, 95%	NA, NA	4972.7, 6021.0	4972.7, 6021.0	2118.7, 5773.8	2470.9, 3323.5	2118.7, 5773.8
Undergraduate degree	N	2	6	8	8	10	18
	MEAN, GEO MEAN	22957.0, 20079.6	7148.3, 4377.0	11100.5, 6405.8	3162.0, 2835.4	6679.3, 5045.5	5116.1, 3905.4
	SD, SE	15737.40, 11128.00	8760.66, 3576.53	11989.80, 4239.03	1457.83, 515.42	5149.74, 1628.49	4260.21, 1004.14
	MEDIAN	22957.0	2942.7	6206.2	2962.3	5022.3	3864.6
	MIN, MAX	11829.0, 34085.0	2018.6, 24259.5	2018.6, 34085.0	1022.5, 5686.2	1084.1, 17112.8	1022.5, 17112.8
	5%, 95%	11829.0, 34085.0	2018.6, 24259.5	2018.6, 34085.0	1022.5, 5686.2	1084.1, 17112.8	1022.5, 17112.8

* Overall values calculated by first averaging the results across visits within a subject, then calculating the descriptive statistics across subjects. Count of BLQ values does not apply as the BLQ values were converted to the upper limit of the BLQ (e.g., <1.234 will be used as '1.234') for the averages across visits within a subject thus eliminating all BLQ values for the overall statistics.

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
 (Page 21 of 7)

Lab: CCLS

Biomarker: Carboxyhemoglobin (% saturation)

Timepoint: Week 1

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	3	8	11	9	9	18
	MEAN, GEO MEAN	2.0, 1.7	3.8, 2.4	3.3, 2.2	0.4, 0.4	0.4, 0.3	0.4, 0.4
	SD, SE	1.29, 0.74	3.69, 1.30	3.25, 0.98	0.17, 0.06	0.14, 0.05	0.15, 0.04
	MEDIAN	1.6	2.3	1.6	0.4	0.3	0.3
	MIN, MAX	0.9, 3.4	0.9, 11.3	0.9, 11.3	0.3, 0.7	0.3, 0.7	0.3, 0.7
	5%, 95%	0.9, 3.4	0.9, 11.3	0.9, 11.3	0.3, 0.7	0.3, 0.7	0.3, 0.7
	BLQ Values Included	0	0	0	4	6	10
Completed tech/voc/trade school	N	5	6	11	2	5	7
	MEAN, GEO MEAN	4.4, 4.1	4.8, 3.8	4.6, 3.9	0.6, 0.5	0.3, 0.3	0.4, 0.4
	SD, SE	1.67, 0.75	3.12, 1.27	2.45, 0.74	0.35, 0.25	0.04, 0.02	0.19, 0.07
	MEDIAN	4.6	4.6	4.6	0.6	0.3	0.3
	MIN, MAX	2.0, 6.7	1.1, 8.9	1.1, 8.9	0.3, 0.8	0.3, 0.4	0.3, 0.8
	5%, 95%	2.0, 6.7	1.1, 8.9	1.1, 8.9	0.3, 0.8	0.3, 0.4	0.3, 0.8
	BLQ Values Included	0	0	0	1	4	5
High school graduate/GED	N	6	7	13	2	6	8
	MEAN, GEO MEAN	4.7, 2.7	4.6, 3.8	4.6, 3.3	0.5, 0.5	0.3, 0.3	0.4, 0.3
	SD, SE	5.19, 2.12	2.57, 0.97	3.81, 1.06	0.28, 0.20	0.00, 0.00	0.14, 0.05
	MEDIAN	3.2	4.6	4.3	0.5	0.3	0.3
	MIN, MAX	0.3, 14.8	1.1, 7.8	0.3, 14.8	0.3, 0.7	0.3, 0.3	0.3, 0.7
	5%, 95%	0.3, 14.8	1.1, 7.8	0.3, 14.8	0.3, 0.7	0.3, 0.3	0.3, 0.7
	BLQ Values Included	1	0	1	0	4	4
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	7.9, 7.9	11.4, 11.4	9.7, 9.5	0.4, 0.4	0.3, 0.3	0.4, 0.3
	SD, SE	NA, NA	NA, NA	2.47, 1.75	0.11, 0.05	0.00, 0.00	0.09, 0.03
	MEDIAN	7.9	11.4	9.7	0.3	0.3	0.3
	MIN, MAX	7.9, 7.9	11.4, 11.4	7.9, 11.4	0.3, 0.5	0.3, 0.3	0.3, 0.5
	5%, 95%	NA, NA	NA, NA	7.9, 11.4	0.3, 0.5	0.3, 0.3	0.3, 0.5
	BLQ Values Included	0	0	0	3	3	6
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	7.4, 7.4	8.0, 8.0	7.7, 7.7	0.6, 0.6	0.3, 0.3	0.5, 0.4
	SD, SE	NA, NA	NA, NA	0.42, 0.30	NA, NA	NA, NA	0.21, 0.15
	MEDIAN	7.4	8.0	7.7	0.6	0.3	0.5
	MIN, MAX	7.4, 7.4	8.0, 8.0	7.4, 8.0	0.6, 0.6	0.3, 0.3	0.3, 0.6
	5%, 95%	NA, NA	NA, NA	7.4, 8.0	NA, NA	NA, NA	0.3, 0.6
	BLQ Values Included	0	0	0	0	1	1

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
 (Page 22 of 7)

Lab: CCLS

Biomarker: Carboxyhemoglobin (% saturation)

Timepoint: Week 1

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	3	3	3	2	5
	MEAN, GEO MEAN	NA, NA	3.7, 3.2	3.7, 3.2	0.7, 0.6	0.3, 0.3	0.5, 0.5
	SD, SE	NA, NA	2.01, 1.16	2.01, 1.16	0.36, 0.21	0.00, 0.00	0.34, 0.15
	MEDIAN	NA	4.6	4.6	0.8	0.3	0.3
	MIN, MAX	NA, NA	1.4, 5.1	1.4, 5.1	0.3, 1.0	0.3, 0.3	0.3, 1.0
	5%, 95%	NA, NA	1.4, 5.1	1.4, 5.1	0.3, 1.0	0.3, 0.3	0.3, 1.0
	BLQ Values Included	NA	0	0	1	2	3
Undergraduate degree	N	2	6	8	8	10	18
	MEAN, GEO MEAN	3.5, 3.5	3.5, 2.9	3.5, 3.0	0.5, 0.4	0.3, 0.3	0.4, 0.4
	SD, SE	0.71, 0.50	2.38, 0.97	2.03, 0.72	0.17, 0.06	0.03, 0.01	0.13, 0.03
	MEDIAN	3.5	3.1	3.1	0.4	0.3	0.3
	MIN, MAX	3.0, 4.0	0.8, 8.0	0.8, 8.0	0.3, 0.7	0.3, 0.4	0.3, 0.7
	5%, 95%	3.0, 4.0	0.8, 8.0	0.8, 8.0	0.3, 0.7	0.3, 0.4	0.3, 0.7
	BLQ Values Included	0	0	0	3	8	11

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
 (Page 23 of 2)

Lab: CCLS

Biomarker: Carboxyhemoglobin (% saturation)

Timepoint: Week 2

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	3	8	11	9	9	18
	MEAN, GEO MEAN	1.4, 1.1	3.9, 2.3	3.2, 1.9	0.4, 0.4	0.3, 0.3	0.4, 0.3
	SD, SE	1.15, 0.67	4.24, 1.50	3.77, 1.14	0.15, 0.05	0.07, 0.02	0.12, 0.03
	MEDIAN	1.0	2.2	2.1	0.3	0.3	0.3
	MIN, MAX	0.5, 2.7	0.3, 13.3	0.3, 13.3	0.3, 0.7	0.3, 0.5	0.3, 0.7
	5%, 95%	0.5, 2.7	0.3, 13.3	0.3, 13.3	0.3, 0.7	0.3, 0.5	0.3, 0.7
	BLQ Values Included	0	1	1	6	7	13
Completed tech/voc/trade school	N	5	6	11	2	5	7
	MEAN, GEO MEAN	4.1, 3.5	5.0, 3.8	4.6, 3.7	0.6, 0.5	0.3, 0.3	0.4, 0.4
	SD, SE	2.57, 1.15	3.37, 1.38	2.92, 0.88	0.42, 0.30	0.00, 0.00	0.23, 0.09
	MEDIAN	3.3	4.7	4.7	0.6	0.3	0.3
	MIN, MAX	1.8, 8.1	0.8, 10.1	0.8, 10.1	0.3, 0.9	0.3, 0.3	0.3, 0.9
	5%, 95%	1.8, 8.1	0.8, 10.1	0.8, 10.1	0.3, 0.9	0.3, 0.3	0.3, 0.9
	BLQ Values Included	0	0	0	1	5	6
High school graduate/GED	N	6	7	13	2	6	8
	MEAN, GEO MEAN	4.0, 2.5	3.8, 3.1	3.9, 2.8	0.3, 0.3	0.4, 0.3	0.3, 0.3
	SD, SE	3.23, 1.32	1.90, 0.72	2.48, 0.69	0.00, 0.00	0.08, 0.03	0.07, 0.03
	MEDIAN	3.4	3.7	3.7	0.3	0.3	0.3
	MIN, MAX	0.3, 8.6	0.7, 6.1	0.3, 8.6	0.3, 0.3	0.3, 0.5	0.3, 0.5
	5%, 95%	0.3, 8.6	0.7, 6.1	0.3, 8.6	0.3, 0.3	0.3, 0.5	0.3, 0.5
	BLQ Values Included	1	0	1	2	4	6
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	4.5, 4.5	9.8, 9.8	7.2, 6.6	0.4, 0.4	0.3, 0.3	0.4, 0.4
	SD, SE	NA, NA	NA, NA	3.75, 2.65	0.22, 0.10	0.06, 0.03	0.18, 0.06
	MEDIAN	4.5	9.8	7.2	0.3	0.3	0.3
	MIN, MAX	4.5, 4.5	9.8, 9.8	4.5, 9.8	0.3, 0.8	0.3, 0.4	0.3, 0.8
	5%, 95%	NA, NA	NA, NA	4.5, 9.8	0.3, 0.8	0.3, 0.4	0.3, 0.8
	BLQ Values Included	0	0	0	2	2	4
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	8.4, 8.4	8.6, 8.6	8.5, 8.5	1.1, 1.1	0.3, 0.3	0.7, 0.6
	SD, SE	NA, NA	NA, NA	0.14, 0.10	NA, NA	NA, NA	0.57, 0.40
	MEDIAN	8.4	8.6	8.5	1.1	0.3	0.7
	MIN, MAX	8.4, 8.4	8.6, 8.6	8.4, 8.6	1.1, 1.1	0.3, 0.3	0.3, 1.1
	5%, 95%	NA, NA	NA, NA	8.4, 8.6	NA, NA	NA, NA	0.3, 1.1
	BLQ Values Included	0	0	0	0	1	1

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
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Lab: CCLS

Biomarker: Carboxyhemoglobin (% saturation)

Timepoint: Week 2

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	3	3	3	2	5
	MEAN, GEO MEAN	NA, NA	3.1, 1.9	3.1, 1.9	0.5, 0.4	0.3, 0.3	0.4, 0.4
	SD, SE	NA, NA	2.75, 1.59	2.75, 1.59	0.29, 0.17	0.00, 0.00	0.22, 0.10
	MEDIAN	NA	3.1	3.1	0.3	0.3	0.3
	MIN, MAX	NA, NA	0.4, 5.9	0.4, 5.9	0.3, 0.8	0.3, 0.3	0.3, 0.8
	5%, 95%	NA, NA	0.4, 5.9	0.4, 5.9	0.3, 0.8	0.3, 0.3	0.3, 0.8
	BLQ Values Included	NA	0	0	1	2	3
Undergraduate degree	N	2	5	7	8	10	18
	MEAN, GEO MEAN	2.9, 2.8	2.8, 1.7	2.8, 2.0	0.3, 0.3	0.3, 0.3	0.3, 0.3
	SD, SE	1.13, 0.80	2.25, 1.01	1.90, 0.72	0.07, 0.03	0.00, 0.00	0.05, 0.01
	MEDIAN	2.9	3.4	3.4	0.3	0.3	0.3
	MIN, MAX	2.1, 3.7	0.3, 5.3	0.3, 5.3	0.3, 0.5	0.3, 0.3	0.3, 0.5
	5%, 95%	2.1, 3.7	0.3, 5.3	0.3, 5.3	0.3, 0.5	0.3, 0.3	0.3, 0.5
	BLQ Values Included	0	1	1	5	9	14

TABLE 14.4-6
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
(Page 25 of 7)

Lab: CCLS

Biomarker: Carboxyhemoglobin (% saturation)

Timepoint: Week 3

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	3	8	11	9	9	18
	MEAN, GEO MEAN	2.6, 2.5	4.3, 3.1	3.9, 2.9	0.4, 0.4	0.6, 0.5	0.5, 0.4
	SD, SE	0.80, 0.46	2.99, 1.06	2.65, 0.80	0.16, 0.05	0.63, 0.21	0.46, 0.11
	MEDIAN	2.6	3.2	3.2	0.3	0.3	0.3
	MIN, MAX	1.8, 3.4	0.3, 9.7	0.3, 9.7	0.3, 0.7	0.3, 2.2	0.3, 2.2
	5%, 95%	1.8, 3.4	0.3, 9.7	0.3, 9.7	0.3, 0.7	0.3, 2.2	0.3, 2.2
	BLQ Values Included	0	0	0	7	5	12
Completed tech/voc/trade school	N	4	6	10	2	5	7
	MEAN, GEO MEAN	5.0, 3.8	5.1, 4.2	5.1, 4.0	0.4, 0.3	0.7, 0.5	0.6, 0.4
	SD, SE	3.25, 1.62	3.36, 1.37	3.13, 0.99	0.07, 0.05	0.98, 0.44	0.83, 0.31
	MEDIAN	5.5	4.2	4.2	0.4	0.3	0.3
	MIN, MAX	0.9, 8.1	1.3, 9.3	0.9, 9.3	0.3, 0.4	0.3, 2.5	0.3, 2.5
	5%, 95%	0.9, 8.1	1.3, 9.3	0.9, 9.3	0.3, 0.4	0.3, 2.5	0.3, 2.5
	BLQ Values Included	0	0	0	1	4	5
High school graduate/GED	N	6	7	13	2	6	8
	MEAN, GEO MEAN	4.2, 2.7	4.7, 3.9	4.5, 3.2	0.4, 0.3	0.3, 0.3	0.3, 0.3
	SD, SE	3.88, 1.58	2.57, 0.97	3.10, 0.86	0.07, 0.05	0.00, 0.00	0.04, 0.01
	MEDIAN	3.2	4.3	3.8	0.4	0.3	0.3
	MIN, MAX	0.3, 11.3	0.7, 8.7	0.3, 11.3	0.3, 0.4	0.3, 0.3	0.3, 0.4
	5%, 95%	0.3, 11.3	0.7, 8.7	0.3, 11.3	0.3, 0.4	0.3, 0.3	0.3, 0.4
	BLQ Values Included	1	0	1	1	5	6
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	10.5, 10.5	9.1, 9.1	9.8, 9.8	0.4, 0.4	0.4, 0.4	0.4, 0.4
	SD, SE	NA, NA	NA, NA	0.99, 0.70	0.13, 0.06	0.06, 0.03	0.11, 0.04
	MEDIAN	10.5	9.1	9.8	0.5	0.4	0.4
	MIN, MAX	10.5, 10.5	9.1, 9.1	9.1, 10.5	0.3, 0.6	0.3, 0.4	0.3, 0.6
	5%, 95%	NA, NA	NA, NA	9.1, 10.5	0.3, 0.6	0.3, 0.4	0.3, 0.6
	BLQ Values Included	0	0	0	1	0	1
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	10.4, 10.4	8.5, 8.5	9.5, 9.4	0.6, 0.6	1.6, 1.6	1.1, 1.0
	SD, SE	NA, NA	NA, NA	1.34, 0.95	NA, NA	NA, NA	0.71, 0.50
	MEDIAN	10.4	8.5	9.5	0.6	1.6	1.1
	MIN, MAX	10.4, 10.4	8.5, 8.5	8.5, 10.4	0.6, 0.6	1.6, 1.6	0.6, 1.6
	5%, 95%	NA, NA	NA, NA	8.5, 10.4	NA, NA	NA, NA	0.6, 1.6
	BLQ Values Included	0	0	0	0	0	0

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
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Lab: CCLS

Biomarker: Carboxyhemoglobin (% saturation)

Timepoint: Week 3

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	2	2	3	2	5
	MEAN, GEO MEAN	NA, NA	4.2, 3.6	4.2, 3.6	1.4, 0.9	0.3, 0.3	0.9, 0.6
	SD, SE	NA, NA	2.97, 2.10	2.97, 2.10	1.29, 0.74	0.00, 0.00	1.08, 0.48
	MEDIAN	NA	4.2	4.2	1.0	0.3	0.3
	MIN, MAX	NA, NA	2.1, 6.3	2.1, 6.3	0.3, 2.8	0.3, 0.3	0.3, 2.8
	5%, 95%	NA, NA	2.1, 6.3	2.1, 6.3	0.3, 2.8	0.3, 0.3	0.3, 2.8
	BLQ Values Included	NA	0	0	1	2	3
Undergraduate degree	N	2	4	6	8	10	18
	MEAN, GEO MEAN	3.0, 2.7	3.4, 3.2	3.3, 3.0	0.3, 0.3	0.4, 0.3	0.4, 0.3
	SD, SE	1.70, 1.20	1.29, 0.65	1.27, 0.52	0.07, 0.03	0.16, 0.05	0.12, 0.03
	MEDIAN	3.0	3.6	3.6	0.3	0.3	0.3
	MIN, MAX	1.8, 4.2	1.7, 4.7	1.7, 4.7	0.3, 0.5	0.3, 0.8	0.3, 0.8
	5%, 95%	1.8, 4.2	1.7, 4.7	1.7, 4.7	0.3, 0.5	0.3, 0.8	0.3, 0.8
	BLQ Values Included	0	0	0	5	6	11

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
 (Page 27 of 2)

Lab: CCLS

Biomarker: Carboxyhemoglobin (% saturation)

Timepoint: Week 6

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	2	7	9	9	9	18
	MEAN, GEO MEAN	3.3, 3.2	3.8, 2.2	3.7, 2.4	0.5, 0.5	0.5, 0.4	0.5, 0.5
	SD, SE	1.13, 0.80	3.41, 1.29	2.99, 1.00	0.27, 0.09	0.34, 0.11	0.30, 0.07
	MEDIAN	3.3	2.6	2.6	0.5	0.3	0.4
	MIN, MAX	2.5, 4.1	0.3, 9.8	0.3, 9.8	0.3, 1.1	0.3, 1.3	0.3, 1.3
	5%, 95%	2.5, 4.1	0.3, 9.8	0.3, 9.8	0.3, 1.1	0.3, 1.3	0.3, 1.3
	BLQ Values Included	0	1	1	3	4	7
Completed tech/voc/trade school	N	3	6	9	2	5	7
	MEAN, GEO MEAN	4.6, 3.8	5.0, 4.6	4.8, 4.3	0.5, 0.4	0.4, 0.4	0.4, 0.4
	SD, SE	3.39, 1.96	1.89, 0.77	2.27, 0.76	0.21, 0.15	0.22, 0.10	0.20, 0.08
	MEDIAN	4.0	5.3	5.0	0.5	0.3	0.3
	MIN, MAX	1.6, 8.3	1.9, 7.4	1.6, 8.3	0.3, 0.6	0.3, 0.8	0.3, 0.8
	5%, 95%	1.6, 8.3	1.9, 7.4	1.6, 8.3	0.3, 0.6	0.3, 0.8	0.3, 0.8
	BLQ Values Included	0	0	0	0	3	3
High school graduate/GED	N	5	7	12	2	6	8
	MEAN, GEO MEAN	5.5, 2.9	5.1, 4.1	5.2, 3.6	0.5, 0.4	0.4, 0.4	0.4, 0.4
	SD, SE	5.43, 2.43	2.74, 1.04	3.85, 1.11	0.07, 0.05	0.12, 0.05	0.11, 0.04
	MEDIAN	4.5	4.9	4.7	0.5	0.3	0.4
	MIN, MAX	0.3, 13.9	0.8, 8.2	0.3, 13.9	0.4, 0.5	0.3, 0.6	0.3, 0.6
	5%, 95%	0.3, 13.9	0.8, 8.2	0.3, 13.9	0.4, 0.5	0.3, 0.6	0.3, 0.6
	BLQ Values Included	1	0	1	0	4	4
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	3.9, 3.9	8.9, 8.9	6.4, 5.9	0.3, 0.3	0.3, 0.3	0.3, 0.3
	SD, SE	NA, NA	NA, NA	3.54, 2.50	0.04, 0.02	0.06, 0.03	0.05, 0.02
	MEDIAN	3.9	8.9	6.4	0.3	0.3	0.3
	MIN, MAX	3.9, 3.9	8.9, 8.9	3.9, 8.9	0.3, 0.4	0.3, 0.4	0.3, 0.4
	5%, 95%	NA, NA	NA, NA	3.9, 8.9	0.3, 0.4	0.3, 0.4	0.3, 0.4
	BLQ Values Included	0	0	0	3	2	5
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	5.8, 5.8	9.2, 9.2	7.5, 7.3	0.9, 0.9	0.3, 0.3	0.6, 0.5
	SD, SE	NA, NA	NA, NA	2.40, 1.70	NA, NA	NA, NA	0.42, 0.30
	MEDIAN	5.8	9.2	7.5	0.9	0.3	0.6
	MIN, MAX	5.8, 5.8	9.2, 9.2	5.8, 9.2	0.9, 0.9	0.3, 0.3	0.3, 0.9
	5%, 95%	NA, NA	NA, NA	5.8, 9.2	NA, NA	NA, NA	0.3, 0.9
	BLQ Values Included	0	0	0	0	0	0

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
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Lab: CCLS

Biomarker: Carboxyhemoglobin (% saturation)

Timepoint: Week 6

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	2	2	3	2	5
	MEAN, GEO MEAN	NA, NA	3.7, 3.6	3.7, 3.6	0.5, 0.4	0.4, 0.3	0.4, 0.4
	SD, SE	NA, NA	1.13, 0.80	1.13, 0.80	0.15, 0.09	0.07, 0.05	0.13, 0.06
	MEDIAN	NA	3.7	3.7	0.5	0.4	0.4
	MIN, MAX	NA, NA	2.9, 4.5	2.9, 4.5	0.3, 0.6	0.3, 0.4	0.3, 0.6
	5%, 95%	NA, NA	2.9, 4.5	2.9, 4.5	0.3, 0.6	0.3, 0.4	0.3, 0.6
	BLQ Values Included	NA	0	0	1	1	2
Undergraduate degree	N	1	4	5	8	10	18
	MEAN, GEO MEAN	5.5, 5.5	2.9, 2.6	3.4, 3.0	0.3, 0.3	0.3, 0.3	0.3, 0.3
	SD, SE	NA, NA	1.42, 0.71	1.69, 0.75	0.07, 0.03	0.00, 0.00	0.05, 0.01
	MEDIAN	5.5	3.3	3.9	0.3	0.3	0.3
	MIN, MAX	5.5, 5.5	1.0, 4.1	1.0, 5.5	0.3, 0.5	0.3, 0.3	0.3, 0.5
	5%, 95%	NA, NA	1.0, 4.1	1.0, 5.5	0.3, 0.5	0.3, 0.3	0.3, 0.5
	BLQ Values Included	0	0	0	5	8	13

TABLE 14.4-6
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
(Page 29 of 2)

Lab: CCLS
Biomarker: Carboxyhemoglobin (% saturation)
Timepoint: Overall*

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	3	8	11	9	9	18
	MEAN, GEO MEAN	2.1, 2.0	3.9, 2.7	3.4, 2.5	0.4, 0.4	0.5, 0.4	0.5, 0.4
	SD, SE	1.12, 0.64	3.46, 1.22	3.06, 0.92	0.09, 0.03	0.25, 0.08	0.18, 0.04
	MEDIAN	1.7	2.6	2.4	0.4	0.4	0.4
	MIN, MAX	1.3, 3.4	0.7, 11.0	0.7, 11.0	0.3, 0.6	0.3, 1.1	0.3, 1.1
Completed tech/voc/trade school	N	5	6	11	2	5	7
	MEAN, GEO MEAN	4.3, 3.8	5.0, 4.2	4.7, 4.0	0.5, 0.5	0.5, 0.4	0.5, 0.4
	SD, SE	2.31, 1.03	2.76, 1.13	2.46, 0.74	0.28, 0.20	0.26, 0.12	0.24, 0.09
	MEDIAN	3.8	5.1	4.2	0.5	0.3	0.3
	MIN, MAX	1.7, 7.8	1.3, 8.9	1.3, 8.9	0.3, 0.7	0.3, 0.9	0.3, 0.9
High school graduate/GED	N	6	7	13	2	6	8
	MEAN, GEO MEAN	4.5, 2.7	4.5, 3.8	4.5, 3.2	0.5, 0.4	0.3, 0.3	0.4, 0.4
	SD, SE	4.29, 1.75	2.37, 0.90	3.24, 0.90	0.07, 0.05	0.05, 0.02	0.07, 0.03
	MEDIAN	3.2	4.3	4.3	0.5	0.3	0.4
	MIN, MAX	0.3, 12.2	0.8, 7.5	0.3, 12.2	0.4, 0.5	0.3, 0.4	0.3, 0.5
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	6.7, 6.7	9.8, 9.8	8.3, 8.1	0.4, 0.4	0.3, 0.3	0.4, 0.4
	SD, SE	NA, NA	NA, NA	2.19, 1.55	0.07, 0.03	0.06, 0.03	0.07, 0.03
	MEDIAN	6.7	9.8	8.3	0.4	0.3	0.4
	MIN, MAX	6.7, 6.7	9.8, 9.8	6.7, 9.8	0.3, 0.5	0.3, 0.4	0.3, 0.5
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	8.0, 8.0	8.6, 8.6	8.3, 8.3	0.8, 0.8	0.6, 0.6	0.7, 0.7
	SD, SE	NA, NA	NA, NA	0.42, 0.30	NA, NA	NA, NA	0.14, 0.10
	MEDIAN	8.0	8.6	8.3	0.8	0.6	0.7
	MIN, MAX	8.0, 8.0	8.6, 8.6	8.0, 8.6	0.8, 0.8	0.6, 0.6	0.6, 0.8
Some high school, grade 9 - 11	5%, 95%	NA, NA	NA, NA	8.0, 8.6	NA, NA	NA, NA	0.6, 0.8

* Overall values calculated by first averaging the results across visits within a subject, then calculating the descriptive statistics across subjects. Count of BLQ values does not apply as the BLQ values were converted to the upper limit of the BLQ (e.g., '<1.234' will be used as '1.234') for the averages across visits within a subject thus eliminating all BLQ values for the overall statistics.

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
 (Page 30 of 42)

Lab: CCLS

Biomarker: Carboxyhemoglobin (% saturation)

Timepoint: Overall^a

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	3	3	3	2	5
	MEAN, GEO MEAN	NA, NA	3.2, 2.5	3.2, 2.5	0.8, 0.6	0.3, 0.3	0.6, 0.5
	SD, SE	NA, NA	2.30, 1.33	2.30, 1.33	0.50, 0.29	0.00, 0.00	0.44, 0.20
	MEDIAN	NA	3.2	3.2	0.7	0.3	0.3
	MIN, MAX	NA, NA	0.9, 5.5	0.9, 5.5	0.3, 1.3	0.3, 0.3	0.3, 1.3
	5%, 95%	NA, NA	0.9, 5.5	0.9, 5.5	0.3, 1.3	0.3, 0.3	0.3, 1.3
Undergraduate degree	N	2	6	8	8	10	18
	MEAN, GEO MEAN	3.4, 3.2	3.6, 2.7	3.5, 2.8	0.4, 0.4	0.3, 0.3	0.3, 0.3
	SD, SE	1.48, 1.05	2.59, 1.06	2.26, 0.80	0.06, 0.02	0.03, 0.01	0.06, 0.01
	MEDIAN	3.4	3.6	3.6	0.4	0.3	0.3
	MIN, MAX	2.3, 4.4	0.6, 8.0	0.6, 8.0	0.3, 0.5	0.3, 0.4	0.3, 0.5
	5%, 95%	2.3, 4.4	0.6, 8.0	0.6, 8.0	0.3, 0.5	0.3, 0.4	0.3, 0.5

^a Overall values calculated by first averaging the results across visits within a subject, then calculating the descriptive statistics across subjects. Count of BLQ values does not apply as the BLQ values were converted to the upper limit of the BLQ (e.g., '<1.234' will be used as '1.234') for the averages across visits within a subject thus eliminating all BLQ values for the overall statistics.

TABLE 14.4-6
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
(Page 31 of 7)

Lab: Harrogate
Biomarker: Hb adduct of 3-aminobiphenyl (pg/g hemoglobin)
Timepoint: Week 1

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	3	8	11	9	9	18
	MEAN, GEO MEAN	2.78, 2.77	3.13, 2.16	3.04, 2.31	0.50, 0.50	1.01, 0.70	0.75, 0.39
	SD, SE	0.223, 0.129	2.999, 1.060	2.517, 0.759	0.000, 0.000	1.349, 0.450	0.962, 0.227
	MEDIAN	2.74	1.92	2.58	0.50	0.50	0.50
	MIN, MAX	2.58, 3.02	0.50, 9.39	0.50, 9.39	0.50, 0.50	0.50, 4.59	0.50, 4.59
	5%, 95%	2.58, 3.02	0.50, 9.39	0.50, 9.39	0.50, 0.50	0.50, 4.59	0.50, 4.59
	BLQ Values Included	0	1	1	9	6	15
Completed tech/voc/trade school	N	5	6	11	2	5	7
	MEAN, GEO MEAN	2.98, 2.28	2.78, 2.04	2.87, 2.15	0.50, 0.50	0.61, 0.59	0.58, 0.56
	SD, SE	2.327, 1.041	2.836, 1.158	2.490, 0.751	0.000, 0.000	0.204, 0.091	0.175, 0.066
	MEDIAN	1.63	1.58	1.63	0.50	0.50	0.50
	MIN, MAX	0.87, 6.08	0.95, 8.41	0.87, 8.41	0.50, 0.50	0.50, 0.97	0.50, 0.97
	5%, 95%	0.87, 6.08	0.95, 8.41	0.87, 8.41	0.50, 0.50	0.50, 0.97	0.50, 0.97
	BLQ Values Included	0	0	0	2	3	5
High school graduate/GED	N	6	7	13	2	6	8
	MEAN, GEO MEAN	3.70, 2.33	3.55, 3.04	3.62, 2.69	0.50, 0.50	0.54, 0.53	0.53, 0.52
	SD, SE	3.687, 1.505	1.879, 0.710	2.727, 0.756	0.000, 0.000	0.090, 0.037	0.078, 0.028
	MEDIAN	2.63	3.52	2.71	0.50	0.50	0.50
	MIN, MAX	0.50, 10.43	1.01, 6.10	0.50, 10.43	0.50, 0.50	0.50, 0.72	0.50, 0.72
	5%, 95%	0.50, 10.43	1.01, 6.10	0.50, 10.43	0.50, 0.50	0.50, 0.72	0.50, 0.72
	BLQ Values Included	1	0	1	2	5	7
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	14.04, 14.04	10.41, 10.41	12.23, 12.09	0.51, 0.51	0.59, 0.58	0.54, 0.53
	SD, SE	NA, NA	NA, NA	2.567, 1.815	0.013, 0.006	0.156, 0.090	0.095, 0.033
	MEDIAN	14.04	10.41	12.23	0.50	0.50	0.50
	MIN, MAX	14.04, 14.04	10.41, 10.41	10.41, 14.04	0.50, 0.53	0.50, 0.77	0.50, 0.77
	5%, 95%	NA, NA	NA, NA	10.41, 14.04	0.50, 0.53	0.50, 0.77	0.50, 0.77
	BLQ Values Included	0	0	0	4	2	6
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	15.03, 15.03	3.98, 3.98	9.51, 7.73	0.62, 0.62	0.50, 0.50	0.56, 0.56
	SD, SE	NA, NA	NA, NA	7.814, 5.525	NA, NA	NA, NA	0.085, 0.060
	MEDIAN	15.03	3.98	9.51	0.62	0.50	0.56
	MIN, MAX	15.03, 15.03	3.98, 3.98	3.98, 15.03	0.62, 0.62	0.50, 0.50	0.50, 0.62
	5%, 95%	NA, NA	NA, NA	3.98, 15.03	NA, NA	NA, NA	0.50, 0.62
	BLQ Values Included	0	0	0	0	1	1

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
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Lab: Harrogate

Biomarker: Hb adduct of 3-aminobiphenyl (pg/g hemoglobin)

Timepoint: Week 1

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	3	3	3	2	5
	MEAN, GEO MEAN	NA, NA	2.59, 2.40	2.59, 2.40	0.50, 0.50	0.55, 0.55	0.52, 0.52
	SD, SE	NA, NA	1.300, 0.750	1.300, 0.750	0.006, 0.003	0.071, 0.050	0.044, 0.020
	MEDIAN	NA	1.97	1.97	0.50	0.55	0.50
	MIN, MAX	NA, NA	1.71, 4.08	1.71, 4.08	0.50, 0.51	0.50, 0.60	0.50, 0.60
	5%, 95%	NA, NA	1.71, 4.08	1.71, 4.08	0.50, 0.51	0.50, 0.60	0.50, 0.60
	BLQ Values Included	NA	0	0	2	1	3
Undergraduate degree	N	2	5	7	8	10	18
	MEAN, GEO MEAN	5.85, 5.84	2.24, 1.79	3.27, 2.51	0.50, 0.50	0.51, 0.50	0.50, 0.50
	SD, SE	0.049, 0.035	1.842, 0.824	2.316, 0.875	0.000, 0.000	0.016, 0.005	0.012, 0.003
	MEDIAN	5.85	1.15	2.47	0.50	0.50	0.50
	MIN, MAX	5.81, 5.88	1.09, 5.36	1.09, 5.88	0.50, 0.50	0.50, 0.55	0.50, 0.55
	5%, 95%	5.81, 5.88	1.09, 5.36	1.09, 5.88	0.50, 0.50	0.50, 0.55	0.50, 0.55
	BLQ Values Included	0	0	0	8	9	17

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
 (Page 33 of 42)

Lab: Harrogate
 Biomarker: Hb adduct of 3-aminobiphenyl (pg/g hemoglobin)
 Timepoint: Week 6

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	2	7	9	9	9	18
	MEAN, GEO MEAN	2.87, 2.85	4.17, 2.57	3.88, 2.63	0.50, 0.50	0.56, 0.54	0.53, 0.52
	SD, SE	0.445, 0.315	3.906, 1.476	3.434, 1.145	0.000, 0.000	0.173, 0.058	0.123, 0.029
	MEDIAN	2.87	3.13	3.13	0.50	0.50	0.50
	MIN, MAX	2.55, 3.18	0.50, 9.83	0.50, 9.83	0.50, 0.50	0.50, 1.02	0.50, 1.02
	5%, 95%	2.55, 3.18	0.50, 9.83	0.50, 9.83	0.50, 0.50	0.50, 1.02	0.50, 1.02
	BLQ Values Included	0	1	1	9	8	17
Completed tech/voc/trade school	N	4	6	10	2	5	7
	MEAN, GEO MEAN	2.65, 2.13	2.52, 1.86	2.57, 1.96	0.50, 0.50	0.50, 0.50	0.50, 0.50
	SD, SE	2.215, 1.108	2.452, 1.001	2.232, 0.706	0.000, 0.000	0.000, 0.000	0.000, 0.000
	MEDIAN	1.79	1.35	1.63	0.50	0.50	0.50
	MIN, MAX	1.09, 5.93	0.99, 7.25	0.99, 7.25	0.50, 0.50	0.50, 0.50	0.50, 0.50
	5%, 95%	1.09, 5.93	0.99, 7.25	0.99, 7.25	0.50, 0.50	0.50, 0.50	0.50, 0.50
	BLQ Values Included	0	0	0	2	5	7
High school graduate/GED	N	5	7	12	2	6	8
	MEAN, GEO MEAN	4.10, 2.76	12.09, 4.77	8.76, 3.80	0.50, 0.50	0.97, 0.83	0.85, 0.73
	SD, SE	3.524, 1.576	22.667, 8.567	17.370, 5.014	0.000, 0.000	0.575, 0.235	0.531, 0.188
	MEDIAN	3.11	4.10	3.61	0.50	0.75	0.50
	MIN, MAX	0.50, 9.61	1.45, 63.34	0.50, 63.34	0.50, 0.50	0.50, 1.84	0.50, 1.84
	5%, 95%	0.50, 9.61	1.45, 63.34	0.50, 63.34	0.50, 0.50	0.50, 1.84	0.50, 1.84
	BLQ Values Included	1	0	1	2	3	5
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	12.65, 12.65	13.54, 13.54	13.10, 13.09	0.50, 0.50	0.50, 0.50	0.50, 0.50
	SD, SE	NA, NA	NA, NA	0.629, 0.445	0.000, 0.000	0.000, 0.000	0.000, 0.000
	MEDIAN	12.65	13.54	13.10	0.50	0.50	0.50
	MIN, MAX	12.65, 12.65	13.54, 13.54	12.65, 13.54	0.50, 0.50	0.50, 0.50	0.50, 0.50
	5%, 95%	NA, NA	NA, NA	12.65, 13.54	0.50, 0.50	0.50, 0.50	0.50, 0.50
	BLQ Values Included	0	0	0	5	3	8
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	11.24, 11.24	3.86, 3.86	7.55, 6.59	1.35, 1.35	0.50, 0.50	0.93, 0.82
	SD, SE	NA, NA	NA, NA	5.218, 3.690	NA, NA	NA, NA	0.601, 0.425
	MEDIAN	11.24	3.86	7.55	1.35	0.50	0.93
	MIN, MAX	11.24, 11.24	3.86, 3.86	3.86, 11.24	1.35, 1.35	0.50, 0.50	0.50, 1.35
	5%, 95%	NA, NA	NA, NA	3.86, 11.24	NA, NA	NA, NA	0.50, 1.35
	BLQ Values Included	0	0	0	0	1	1

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
 (Page 34 of 7)

Lab: Harrogate

Biomarker: Hb adduct of 3-aminobiphenyl (pg/g hemoglobin)

Timepoint: Week 6

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	2	2	3	2	5
	MEAN, GEO MEAN	NA, NA	3.41, 3.14	3.41, 3.14	1.15, 0.85	0.50, 0.50	0.89, 0.69
	SD, SE	NA, NA	1.860, 1.315	1.860, 1.315	1.132, 0.653	0.000, 0.000	0.877, 0.392
	MEDIAN	NA	3.41	3.41	0.50	0.50	0.50
	MIN, MAX	NA, NA	2.09, 4.72	2.09, 4.72	0.50, 2.46	0.50, 0.50	0.50, 2.46
	5%, 95%	NA, NA	2.09, 4.72	2.09, 4.72	0.50, 2.46	0.50, 0.50	0.50, 2.46
	BLQ Values Included	NA	0	0	2	2	4
Undergraduate degree	N	1	4	5	8	10	18
	MEAN, GEO MEAN	5.13, 5.13	1.59, 1.26	2.30, 1.67	0.50, 0.50	0.50, 0.50	0.50, 0.50
	SD, SE	NA, NA	1.279, 0.640	1.933, 0.865	0.000, 0.000	0.000, 0.000	0.000, 0.000
	MEDIAN	5.13	1.21	1.23	0.50	0.50	0.50
	MIN, MAX	5.13, 5.13	0.50, 3.44	0.50, 5.13	0.50, 0.50	0.50, 0.50	0.50, 0.50
	5%, 95%	NA, NA	0.50, 3.44	0.50, 5.13	0.50, 0.50	0.50, 0.50	0.50, 0.50
	BLQ Values Included	0	1	1	8	10	18

TABLE 14.4-6
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
(Page 35 of 7)

Lab: Harrogate
Biomarker: Hb adduct of 3-aminobiphenyl (pg/g hemoglobin)
Timepoint: Overall*

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	3	8	11	9	9	18
	MEAN, GEO MEAN	2.80, 2.79	3.50, 2.32	3.31, 2.44	0.50, 0.50	0.78, 0.66	0.64, 0.57
	SD, SE	0.271, 0.156	3.294, 1.165	2.778, 0.838	0.000, 0.000	0.669, 0.223	0.482, 0.114
	MEDIAN	2.74	2.19	2.58	0.50	0.50	0.50
	MIN, MAX	2.57, 3.10	0.50, 9.34	0.50, 9.34	0.50, 0.50	0.50, 2.55	0.50, 2.55
Completed tech/voc/trade school	N	5	6	11	2	5	7
	MEAN, GEO MEAN	3.04, 2.40	2.65, 1.97	2.83, 2.16	0.50, 0.50	0.56, 0.55	0.54, 0.54
	SD, SE	2.243, 1.003	2.635, 1.076	2.350, 0.709	0.000, 0.000	0.104, 0.047	0.090, 0.034
	MEDIAN	1.78	1.44	1.57	0.50	0.50	0.50
	MIN, MAX	0.98, 6.01	1.02, 7.83	0.98, 7.83	0.50, 0.50	0.50, 0.74	0.50, 0.74
High school graduate/GED	N	6	7	13	2	6	8
	MEAN, GEO MEAN	3.63, 2.31	7.82, 4.79	5.89, 3.42	0.50, 0.50	0.75, 0.70	0.69, 0.64
	SD, SE	3.545, 1.447	10.832, 4.094	8.284, 2.298	0.000, 0.000	0.310, 0.126	0.286, 0.101
	MEDIAN	2.61	4.47	3.05	0.50	0.63	0.50
	MIN, MAX	0.50, 10.02	2.13, 32.18	0.50, 32.18	0.50, 0.50	0.50, 1.17	0.50, 1.17
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	13.35, 13.35	11.98, 11.98	12.67, 12.65	0.50, 0.50	0.55, 0.54	0.52, 0.52
	SD, SE	NA, NA	NA, NA	0.969, 0.685	0.009, 0.004	0.081, 0.047	0.049, 0.017
	MEDIAN	13.35	11.98	12.67	0.50	0.50	0.50
	MIN, MAX	13.35, 13.35	11.98, 11.98	11.98, 13.35	0.50, 0.52	0.50, 0.64	0.50, 0.64
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	13.14, 13.14	3.92, 3.92	8.53, 7.18	0.99, 0.99	0.50, 0.50	0.75, 0.70
	SD, SE	NA, NA	NA, NA	6.520, 4.610	NA, NA	NA, NA	0.346, 0.245
	MEDIAN	13.14	3.92	8.53	0.99	0.50	0.75
	MIN, MAX	13.14, 13.14	3.92, 3.92	3.92, 13.14	0.99, 0.99	0.50, 0.50	0.50, 0.99
Some high school, grade 9 - 11	5%, 95%	NA, NA	NA, NA	3.92, 13.14	NA, NA	NA, NA	0.50, 0.99

* Overall values calculated by first averaging the results across visits within a subject, then calculating the descriptive statistics across subjects. Count of BLQ values does not apply as the BLQ values were converted to the upper limit of the BLQ (e.g., '<1.234' will be used as '1.234') for the averages across visits within a subject thus eliminating all BLQ values for the overall statistics.

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
 (Page 36 of 7)

Lab: Harrogate
 Biomarker: Hb adduct of 3-aminobiphenyl (pg/g hemoglobin)
 Timepoint: Overall*

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	3	3	3	2	5
	MEAN, GEO MEAN	NA, NA	2.71, 2.48	2.71, 2.48	0.83, 0.72	0.53, 0.52	0.71, 0.64
	SD, SE	NA, NA	1.469, 0.848	1.469, 0.848	0.563, 0.325	0.035, 0.025	0.432, 0.193
	MEDIAN	NA	2.03	2.03	0.51	0.53	0.51
	MIN, MAX	NA, NA	1.71, 4.40	1.71, 4.40	0.50, 1.48	0.50, 0.55	0.50, 1.48
	5%, 95%	NA, NA	1.71, 4.40	1.71, 4.40	0.50, 1.48	0.50, 0.55	0.50, 1.48
Undergraduate degree	N	2	6	8	8	10	18
	MEAN, GEO MEAN	5.68, 5.67	2.29, 1.81	3.13, 2.41	0.50, 0.50	0.50, 0.50	0.50, 0.50
	SD, SE	0.290, 0.205	1.778, 0.726	2.175, 0.769	0.000, 0.000	0.009, 0.003	0.007, 0.002
	MEDIAN	5.68	1.51	2.64	0.50	0.50	0.50
	MIN, MAX	5.47, 5.88	0.81, 5.36	0.81, 5.88	0.50, 0.50	0.50, 0.53	0.50, 0.53
	5%, 95%	5.47, 5.88	0.81, 5.36	0.81, 5.88	0.50, 0.50	0.50, 0.53	0.50, 0.53

* Overall values calculated by first averaging the results across visits within a subject, then calculating the descriptive statistics across subjects. Count of BLQ values does not apply as the BLQ values were converted to the upper limit of the BLQ (e.g., '<1.234' will be used as '1.234') for the averages across visits within a subject thus eliminating all BLQ values for the overall statistics.

TABLE 14.4-6
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
(Page 37 of 42)

Lab: Harrogate

Biomarker: Hb adduct of 4-aminobiphenyl (pg/g hemoglobin)

Timepoint: Week 1

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	3	8	11	9	9	18
	MEAN, GEO MEAN	27.77, 27.74	26.14, 21.60	26.58, 23.13	6.14, 5.73	8.71, 7.69	7.43, 6.64
	SD, SE	1.505, 0.869	15.516, 5.486	13.021, 3.926	2.281, 0.760	4.405, 1.468	3.651, 0.860
	MEDIAN	28.29	21.64	26.07	6.76	8.41	7.09
	MIN, MAX	26.07, 28.94	53.7, 49.11	53.7, 49.11	2.90, 8.77	2.95, 17.37	2.90, 17.37
	5%, 95%	26.07, 28.94	53.7, 49.11	53.7, 49.11	2.90, 8.77	2.95, 17.37	2.90, 17.37
	BLQ Values Included	0	0	0	0	0	0
Completed tech/voc/trade school	N	5	6	11	2	5	7
	MEAN, GEO MEAN	31.49, 28.42	27.82, 23.47	29.49, 25.60	5.74, 5.45	11.34, 9.80	9.74, 8.29
	SD, SE	14.138, 6.323	12.717, 5.192	12.826, 3.867	2.539, 1.795	7.225, 3.231	6.584, 2.489
	MEDIAN	36.10	33.69	34.43	5.74	9.65	7.53
	MIN, MAX	12.76, 47.22	5.35, 38.56	5.35, 47.22	3.94, 7.53	5.26, 23.25	3.94, 23.25
	5%, 95%	12.76, 47.22	5.35, 38.56	5.35, 47.22	3.94, 7.53	5.26, 23.25	3.94, 23.25
	BLQ Values Included	0	0	0	0	0	0
High school graduate/GED	N	6	7	13	2	6	8
	MEAN, GEO MEAN	49.36, 37.79	27.42, 24.85	37.55, 30.15	4.70, 4.65	8.94, 8.57	7.88, 7.36
	SD, SE	34.571, 14.114	11.612, 4.389	26.365, 7.312	0.955, 0.675	2.915, 1.190	3.172, 1.121
	MEDIAN	44.99	25.56	28.56	4.70	7.95	7.05
	MIN, MAX	12.37, 90.72	8.56, 47.86	8.56, 90.72	4.02, 5.37	6.22, 13.38	4.02, 13.38
	5%, 95%	12.37, 90.72	8.56, 47.86	8.56, 90.72	4.02, 5.37	6.22, 13.38	4.02, 13.38
	BLQ Values Included	0	0	0	0	0	0
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	100.50, 100.50	67.83, 67.83	84.17, 82.56	6.30, 5.45	8.49, 8.23	7.12, 6.36
	SD, SE	NA, NA	NA, NA	23.101, 16.335	4.322, 1.933	2.500, 1.443	3.707, 1.311
	MEDIAN	100.50	67.83	84.17	4.97	8.48	5.70
	MIN, MAX	100.50, 100.50	67.83, 67.83	67.83, 100.50	3.12, 13.87	5.99, 10.99	3.12, 13.87
	5%, 95%	NA, NA	NA, NA	67.83, 100.50	3.12, 13.87	5.99, 10.99	3.12, 13.87
	BLQ Values Included	0	0	0	0	0	0
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	79.91, 79.91	38.70, 38.70	59.31, 55.61	9.43, 9.43	7.59, 7.59	8.51, 8.46
	SD, SE	NA, NA	NA, NA	29.140, 20.605	NA, NA	NA, NA	1.301, 0.920
	MEDIAN	79.91	38.70	59.31	9.43	7.59	8.51
	MIN, MAX	79.91, 79.91	38.70, 38.70	38.70, 79.91	9.43, 9.43	7.59, 7.59	7.59, 9.43
	5%, 95%	NA, NA	NA, NA	38.70, 79.91	NA, NA	NA, NA	7.59, 9.43
	BLQ Values Included	0	0	0	0	0	0

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
 (Page 38 of 7)

Lab: Harrogate

Biomarker: Hb adduct of 4-aminobiphenyl (pg/g hemoglobin)

Timepoint: Week 1

Characteristic	Statistic	Male	Smokers		Non-Smokers		Overall
			Female	Overall	Male	Female	
Some tech/voc/trade school	N	0	3	3	3	2	5
	MEAN, GEO MEAN	NA, NA	24.16, 23.31	24.16, 23.31	4.78, 4.34	4.85, 4.80	4.80, 4.52
	SD, SE	NA, NA	8.280, 4.780	8.280, 4.780	2.705, 1.562	0.884, 0.625	1.963, 0.878
	MEDIAN	NA	19.47	19.47	3.22	4.85	4.22
	MIN, MAX	NA, NA	19.29, 33.72	19.29, 33.72	3.21, 7.90	4.22, 5.47	3.21, 7.90
	5%, 95%	NA, NA	19.29, 33.72	19.29, 33.72	3.21, 7.90	4.22, 5.47	3.21, 7.90
	BLQ Values Included	NA	0	0	0	0	0
Undergraduate degree	N	2	5	7	8	10	18
	MEAN, GEO MEAN	49.83, 49.65	24.27, 21.09	31.57, 26.94	7.12, 6.29	6.01, 5.79	6.50, 6.01
	SD, SE	5.968, 4.220	15.576, 6.966	17.980, 6.796	3.750, 1.326	1.402, 0.443	2.675, 0.631
	MEDIAN	49.83	18.37	25.67	6.28	6.54	6.54
	MIN, MAX	45.61, 54.05	11.43, 50.52	11.43, 54.05	3.36, 13.59	2.49, 7.38	2.49, 13.59
	5%, 95%	45.61, 54.05	11.43, 50.52	11.43, 54.05	3.36, 13.59	2.49, 7.38	2.49, 13.59
	BLQ Values Included	0	0	0	0	0	0

TABLE 14.4-6
DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
(Page 39 of 7)

Lab: Harrogate

Biomarker: Hb adduct of 4-aminobiphenyl (pg/g hemoglobin)

Timepoint: Week 6

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	2	7	9	9	9	18
	MEAN, GEO MEAN	28.17, 28.15	39.56, 32.24	37.03, 31.29	8.45, 7.86	8.61, 8.16	8.53, 8.01
	SD, SE	1.329, 0.940	22.707, 8.582	20.302, 6.767	3.685, 1.228	3.134, 1.045	3.320, 0.782
	MEDIAN	28.17	34.67	32.69	7.35	8.34	7.43
	MIN, MAX	27.23, 29.11	7.32, 73.92	7.32, 73.92	4.36, 16.50	5.19, 15.32	4.36, 16.50
	5%, 95%	27.23, 29.11	7.32, 73.92	7.32, 73.92	4.36, 16.50	5.19, 15.32	4.36, 16.50
	BLQ Values Included	0	0	0	0	0	0
Completed tech/voc/trade school	N	4	6	10	2	5	7
	MEAN, GEO MEAN	37.37, 31.38	31.74, 27.79	33.99, 29.17	7.67, 7.34	10.15, 8.76	9.44, 8.33
	SD, SE	26.410, 13.205	12.768, 5.212	18.208, 5.758	3.140, 2.220	7.114, 3.182	6.070, 2.294
	MEDIAN	28.56	37.63	37.22	7.67	6.93	6.93
	MIN, MAX	17.77, 74.58	7.27, 40.94	7.27, 74.58	5.45, 9.89	5.34, 22.67	5.34, 22.67
	5%, 95%	17.77, 74.58	7.27, 40.94	7.27, 74.58	5.45, 9.89	5.34, 22.67	5.34, 22.67
	BLQ Values Included	0	0	0	0	0	0
High school graduate/GED	N	5	7	12	2	6	8
	MEAN, GEO MEAN	43.83, 34.79	152.53, 64.49	107.24, 49.87	7.16, 7.13	9.87, 9.45	9.19, 8.81
	SD, SE	27.305, 12.211	289.510, 109.425	221.634, 63.980	0.785, 0.555	3.122, 1.275	2.937, 1.038
	MEDIAN	45.29	47.55	46.42	7.16	9.29	8.86
	MIN, MAX	9.56, 73.31	30.70, 808.80	9.56, 808.80	6.60, 7.71	5.58, 14.98	5.58, 14.98
	5%, 95%	9.56, 73.31	30.70, 808.80	9.56, 808.80	6.60, 7.71	5.58, 14.98	5.58, 14.98
	BLQ Values Included	0	0	0	0	0	0
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	97.75, 97.75	90.32, 90.32	94.04, 93.96	10.30, 7.78	10.16, 9.57	10.24, 8.41
	SD, SE	NA, NA	NA, NA	5.254, 3.715	9.990, 4.467	4.045, 2.335	7.855, 2.777
	MEDIAN	97.75	90.32	94.04	5.42	10.39	7.49
	MIN, MAX	97.75, 97.75	90.32, 90.32	90.32, 97.75	4.11, 27.86	6.00, 14.08	4.11, 27.86
	5%, 95%	NA, NA	NA, NA	90.32, 97.75	4.11, 27.86	6.00, 14.08	4.11, 27.86
	BLQ Values Included	0	0	0	0	0	0
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	54.65, 54.65	45.44, 45.44	50.05, 49.83	20.64, 20.64	6.23, 6.23	13.44, 11.34
	SD, SE	NA, NA	NA, NA	6.512, 4.605	NA, NA	NA, NA	10.189, 7.205
	MEDIAN	54.65	45.44	50.05	20.64	6.23	13.44
	MIN, MAX	54.65, 54.65	45.44, 45.44	45.44, 54.65	20.64, 20.64	6.23, 6.23	6.23, 20.64
	5%, 95%	NA, NA	NA, NA	45.44, 54.65	NA, NA	NA, NA	6.23, 20.64
	BLQ Values Included	0	0	0	0	0	0

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
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Lab: Harrogate

Biomarker: Hb adduct of 4-aminobiphenyl (pg/g hemoglobin)

Timepoint: Week 6

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	2	2	3	2	5
	MEAN, GEO MEAN	NA, NA	38.45, 37.18	38.45, 37.18	6.62, 6.03	7.96, 7.93	7.15, 6.73
	SD, SE	NA, NA	13.852, 9.795	13.852, 9.795	3.692, 2.132	0.827, 0.585	2.743, 1.227
	MEDIAN	NA	38.45	38.45	4.53	7.96	7.37
	MIN, MAX	NA, NA	28.65, 48.24	28.65, 48.24	4.44, 10.88	7.37, 8.54	4.44, 10.88
	5%, 95%	NA, NA	28.65, 48.24	28.65, 48.24	4.44, 10.88	7.37, 8.54	4.44, 10.88
	BLQ Values Included	NA	0	0	0	0	0
Undergraduate degree	N	1	4	5	8	10	18
	MEAN, GEO MEAN	48.46, 48.46	26.20, 25.31	30.65, 28.83	8.75, 8.07	7.53, 6.93	8.07, 7.42
	SD, SE	NA, NA	7.274, 3.637	11.781, 5.269	3.603, 1.274	3.543, 1.120	3.518, 0.829
	MEDIAN	48.46	27.99	30.14	8.94	6.97	7.40
	MIN, MAX	48.46, 48.46	16.14, 32.67	16.14, 48.46	4.31, 15.03	4.09, 15.91	4.09, 15.91
	5%, 95%	NA, NA	16.14, 32.67	16.14, 48.46	4.31, 15.03	4.09, 15.91	4.09, 15.91
	BLQ Values Included	0	0	0	0	0	0

TABLE 14.4-6

DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
(Page 41 of ?)

Lab: Harrogate

Biomarker: Hb adduct of 4-aminobiphenyl (pg/g hemoglobin)

Timepoint: Overall*

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Attended college, No Degree	N	3	8	11	9	9	18
	MEAN, GEO MEAN	27.62, 27.59	31.74, 26.29	30.62, 26.64	7.30, 6.86	8.66, 8.04	7.98, 7.43
	SD, SE	1.485, 0.857	18.383, 6.500	15.513, 4.678	2.759, 0.920	3.608, 1.203	3.194, 0.753
	MEDIAN	27.76	26.55	27.76	7.06	8.64	7.60
	MIN, MAX	26.07, 29.03	6.35, 61.52	6.35, 61.52	4.08, 12.53	4.07, 16.35	4.07, 16.35
	5%, 95%	26.07, 29.03	6.35, 61.52	6.35, 61.52	4.08, 12.53	4.07, 16.35	4.07, 16.35
Completed tech/voc/trade school	N	5	6	11	2	5	7
	MEAN, GEO MEAN	35.41, 31.57	29.78, 25.68	32.34, 28.21	6.71, 6.40	10.75, 9.45	9.59, 8.45
	SD, SE	17.683, 7.908	12.613, 5.149	14.604, 4.403	2.835, 2.005	6.968, 3.116	6.131, 2.317
	MEDIAN	36.92	36.43	36.92	6.71	8.83	8.71
	MIN, MAX	16.07, 57.36	6.31, 37.69	6.31, 57.36	4.70, 8.71	6.07, 22.96	4.70, 22.96
	5%, 95%	16.07, 57.36	6.31, 37.69	6.31, 57.36	4.70, 8.71	6.07, 22.96	4.70, 22.96
High school graduate/GED	N	6	7	13	2	6	8
	MEAN, GEO MEAN	43.98, 33.63	89.98, 51.24	68.75, 42.19	5.93, 5.93	9.41, 9.09	8.54, 8.17
	SD, SE	31.060, 12.680	140.703, 53.181	104.260, 28.917	0.085, 0.060	2.663, 1.087	2.767, 0.978
	MEDIAN	39.80	36.14	36.14	5.93	8.99	8.14
	MIN, MAX	12.37, 82.02	29.63, 408.68	12.37, 408.68	5.87, 5.99	5.90, 13.31	5.87, 13.31
	5%, 95%	12.37, 82.02	29.63, 408.68	12.37, 408.68	5.87, 5.99	5.90, 13.31	5.87, 13.31
Post-graduate education	N	1	1	2	5	3	8
	MEAN, GEO MEAN	99.13, 99.13	79.08, 79.08	89.11, 88.54	8.30, 6.67	9.33, 8.92	8.69, 7.44
	SD, SE	NA, NA	NA, NA	14.177, 10.025	7.133, 3.190	3.271, 1.889	5.694, 2.013
	MEDIAN	99.13	79.08	89.11	5.41	9.44	6.49
	MIN, MAX	99.13, 99.13	79.08, 79.08	79.08, 99.13	3.62, 20.87	6.00, 12.54	3.62, 20.87
	5%, 95%	NA, NA	NA, NA	79.08, 99.13	3.62, 20.87	6.00, 12.54	3.62, 20.87
Some high school, grade 9 - 11	N	1	1	2	1	1	2
	MEAN, GEO MEAN	67.28, 67.28	42.07, 42.07	54.68, 33.20	15.04, 15.04	6.91, 6.91	10.98, 10.19
	SD, SE	NA, NA	NA, NA	17.826, 12.605	NA, NA	NA, NA	5.749, 4.065
	MEDIAN	67.28	42.07	54.68	15.04	6.91	10.98
	MIN, MAX	67.28, 67.28	42.07, 42.07	42.07, 67.28	15.04, 15.04	6.91, 6.91	6.91, 15.04
	5%, 95%	NA, NA	NA, NA	42.07, 67.28	NA, NA	NA, NA	6.91, 15.04

* Overall values calculated by first averaging the results across visits within a subject, then calculating the descriptive statistics across subjects. Count of BLQ values does not apply as the BLQ values were converted to the upper limit of the BLQ (e.g., '<1.234' will be used as '1.234') for the averages across visits within a subject thus eliminating all BLQ values for the overall statistics.

TABLE 14.4-6
 DESCRIPTIVE STATISTICS OF BLOOD AND/OR PLASMA BIOMARKERS OF EXPOSURE BY TIMEPOINT FOR DEMOGRAPHIC CHARACTERISTIC: HIGHEST GRADE OR YEAR OF SCHOOL COMPLETED
 (Page 42 of 7)

Lab: Harrogate

Biomarker: Hb adduct of 4-aminobiphenyl (pg/g hemoglobin)

Timepoint: Overall*

Characteristic	Statistic	Smokers			Non-Smokers		
		Male	Female	Overall	Male	Female	Overall
Some tech/voc/trade school	N	0	3	3	3	2	5
	MEAN, GEO MEAN	NA, NA	28.11, 26.69	28.11, 26.69	5.70, 5.19	6.40, 6.40	5.98, 5.64
	SD, SE	NA, NA	11,398, 6,581	11,398, 6,581	3,196, 1,845	0.028, 0.020	2,292, 1,025
	MEDIAN	NA	24.06	24.06	3.88	6.40	6.38
	MIN, MAX	NA, NA	19.29, 40.98	19.29, 40.98	3.83, 9.39	6.38, 6.42	3.83, 9.39
	5%, 95%	NA, NA	19.29, 40.98	19.29, 40.98	3.83, 9.39	6.38, 6.42	3.83, 9.39
Undergraduate degree	N	2	5	8	8	10	18
	MEAN, GEO MEAN	48.44, 48.35	26.73, 23.83	32.16, 28.44	7.94, 7.23	6.77, 6.55	7.29, 6.85
	SD, SE	3,995, 2,825	13,992, 5,712	15,591, 5,512	3,604, 1,274	2,004, 0,634	2,798, 0,639
	MEDIAN	48.44	25.01	30.29	7.70	6.28	6.92
	MIN, MAX	45.61, 51.26	11.43, 50.52	11.43, 51.26	3.84, 14.31	4.71, 11.65	3.84, 14.31
	5%, 95%	45.61, 51.26	11.43, 50.52	11.43, 51.26	3.84, 14.31	4.71, 11.65	3.84, 14.31

* Overall values calculated by first averaging the results across visits within a subject, then calculating the descriptive statistics across subjects. Count of BLQ values does not apply as the BLQ values were converted to the upper limit of the BLQ (e.g., <1.234 will be used as '1,234') for the averages across visits within a subject thus eliminating all BLQ values for the overall statistics.